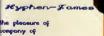
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MASTERFILE 8000

FOR ALL AMSTRAD PCW COMPUTERS

MASTERFILE 8000, the subject of so many enquiries, is now available.

MASTERFILE 8000 is a totally new database product. While drawing on the best features of the CPC versions, it has been designed specifically for the PCW range. The resulting combination of control and power is a delight to use

Other products offer a choice between fast but limited-capacity RAM files, and large-capacity but cumbersome fixed-length, direct-access disc files. MASTERFILE 8000 and the PCW RAM disc combine to offer high capacity with fast access to variable-length data. File capacity is limited only by the size of your RAM disc.

A MASTERFILE hallmark is the provision of multiple, user-designed display formats. This flexibility remains, but now it's even easier. With MASTERFILE 8000 you design your formats "live"; no more questionnaires, just move your format effects around the screen using the cursor keys!

Record updating is even easier than before — just steer your cursor to any field on the screen and then insert/erase/alter as required.

Special options are provided for handling dates and surnames, and column totals can be generated.

All screen work is done graphically — and hence we offer unique panel, box, and ruled line options. Choose the line spacing at pixel resolution — you will be amazed how much clearer 9-pixel lines are than the usual 8-pixels. (Study the picture.) And all this faster than CP/M normally lets you paint the screen! PCW printer functions, under menu control, are provided.

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12792	11 Nev 87	£39.20		***
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Keyed files are maintained automatically in key sequence, with never any need to sort. You can have unkeyed files too, where records can be inserted at any point in the file. Any file can make RELATIONAL references to up to EIGHT read-only keyed files, the linkage being effected purely by the use of matching file and data names.

You can import/merge ASCII files (e.g. from MASTERFILE III), or export any data (e.g. to a word-processor), and merge files. For keyed files this is a true merge, not just an append operation. By virtue of export and re-import you can make a copy of a file in another key sequence. New data fields can be added at any time.

File searches combine flexibility with speed. (MASTERFILE 8000 usually waits for you, not the other way around.) You can even assign subsets of a file into one or more of seven pigeon-holes for subsequent reference or further manipulation.



FIELD.TO-FIELD CALCULATION is available, using any mixture of terms and arithmetic operators +-* / ().

MASTERFILE 8000 is totally menu-driven, fully machine-coded, and comes with example files and a detailed manual. We claim (modestly) that you will not find another filing system with such power, flexibility, and friendliness.

MASTERFILE 8000 costs £49.95 including VAT and P&P to anywhere in Europe. Elsewhere please add 20% for air-mail service. ACCESS/VISA/MASTERCARD orders are welcome, written or telephoned, quoting card expiry date. Make cheques payable to "Campbell Systems".

Our normal response is return of post, 1st class.

CAMPBELL SYSTEMS (Dept 8PL) 7 Station Road, EPPING, Essex CM16 4HA,

7 Station Road, EPPING, Essex CM16 4HA, England. Tel: (0378) 77762/3

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Introductory incantations

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SPECIAL OFFERS Get it here and save money

POSTSCRIPT

85 The sting in the tail: your letters











LocoScript 2 is the new word processor for your PCW8000.

Now, for just £34.90, you can get LocoScript 2 complete with
LocoSpell, the integrated spelling checker and corrector.

* Paster movement around documents * Jump direct to a page * Word count facility Save and continue from last position * Improved character shapes on the built-in printer * Choice from over 200 matrix, daisywheel or laser printers (may require the Extra Printer Drivers Disc) * Extended range of characters and symbols * Greek and Cyrllic text * Accents with any character * Improved word processing features * Printing of multiple copies * Disc copying and formatting direct from LocoScript * Check spelling without any disc changes * Correction of simple typing mistakes * Three dictionaries supplied by Longman, the largest with over 77,000 words * Your own dictionaries of special words and names * Online dictionary for looking up difficult words as you type * (SiC) marker for special spellings * Completely revised user cuides*

LocoScript 2 Family LocoMotive Software

LOCOMOTIVE

LocoMail adds a complete programming language to LocoScript 2 – but don't panic, you can use it simply and powerfully for your mailshots too.

• Produce a mailshot by merging a standard letter with a mailing list • Produce letters for each name or data record, or just for a selection • Include special text depending on the data to be merged - each version of your text is correctly laid out, whatever special information you insert • Edit the merged letter before printing • Save the result to disc if required • Use LocoScript data files or ASCII data files from a CPM program • Prompt for information to be typed at the keyboard • Perform arithmetic within LocoScript documents • Produce sophisticated LocoMail 'programs' for Invoicino. Credit Control. Enouries etc.

LocoMail now comes with a completely revised 288 page User
Guide – available separately for users of the PCW9512 and
earlier versions of LocoMail.

An extended tutorial section * Detailed descriptions of the advanced facilities * Worked examples of "program units", loops and conditional operations * Descriptions of typical uses of LocoMail - Club Membership, Invoicing, Enquiries, Labels * A set of "building blocks" to incorporate in your own LocoMail applications * Pull technical description of LocoMail * Troubleshooting unide

All the examples are supplied on the LocoMail master disc, or on the LocoMail Examples Disc, available separately.



Please send me the following products To: Katy Buchan, Locomotive Systems LocoScript 2 with LocoSpell £34.90 Allen Court, Dorking, Surrey, RH4 1YL LocoSpell (for LocoScript 2.03 or later) £19.95 Phone (0306) 740606 LocoMail £29 95 NEW LocoMail User Guide £14.95 NEW LocoMail Examples Disc £5.00 Name See us at the Show: Total Address I enclose a cheque payable to May 26-28 1988 Locomotive Systems Limited Alexandra Palace Charge to my Access Card London, N22 Postcode Note: All prices include VAT and UK postage.

BEHIND THE TIMES?

Remember the old Morris 1000s? There are still plently of them knocking about, and many of them in pretty good shape. As aryone who's ever driven one will testly, they may not be the quickest or most combrabile cars ever built, and they certainly were never the most glamrous. The technology was never state-of-the-ard even in the filties, but they have always been reliable and the ideal nonnensee car for people who just want, like those characters in maths problems, to get from A to B. And here they are, thirty years on still nonne.

The PCW has more or less established itself as the Moris 1000 of the micros. According b. Markad, the one nilliothm anchine was sold sometime this month; it may even be true. But it's hardly state-of-the-art either. It uses the now superseded three-inch discs and its 280 processor is ten years old, laughably outdated and slow Acchimedes. That's what makes it the price it is – and them the price have the property of the property of the price it is – and them the price of the price it is – and them the price it.

But it does the job, what's the point of the extra speed? Most of the time your PCW is doing nothing—even touch ripists can only his a few hundred keys a minute, meaning your machine's twiddling its thumbs 99% of the time. That extra lew milliseconds wouldn't make any noticeable difference. Sure, if you want it to do something requiring a few more calculations per second—play an arcade game, say—the Archimedes will of it rather taster. But how many

PCW users do you know who don't word process most of the time?

Just like car drivers, micro owners like to upgrade, buy newer

and faster models, and reminisce about the clarky old machines they had years ago. And, no doubl, all of of hitherto compute littlerate PCW users will surprise themselves by moving up the silicon ladder to more plannous machines, and talk at length about how their old 8256 used to take nearly five seconds to make an ASCII file of that document which took them hour hours to type in when their new transplare does it in three and a half ananseconds. But in ten years' time the vast majority of current PCW users will still be three, happily using LocoScript's and their Amstad laser printer, still turning out perfectly good letters, business documents and manuscriots.

So, next time you pass your local computer store and read the blurb for the machines of the future with their four-figure price tags, smile and think how much your PCW cost.



When the music stops

Great things have been aloot here in Bath. Erstwhile editor been Tajor has torsaken the PCW and moved up onto 16 bit machines. (The PCW is an 6 bit machines. (The PCW is an 6 bit machines.) and the PCW is an 6 bit machines. (The PCW is an 6 bit what the difference is, it is just what the difference is, it is just that the 16 bit models crash twice as often). He'll now be editing out to secret new magazine ST/Amiga format. Atlar and Amiga devotees can look forward to seeing all 8000's old jokes reappearing there.

Stepping into his shoes and taking over the editor's chair here is Rob Ainsley, while 8000's new boy is Sharon Bradley who, having just flown in from Dallas in a leopard-skin bikini, reaches the summit of her career in working alongside such an esteemed personage as Alec Rae. Alec manages



Bring on the sub

As the number of our subscribers continues to swell we've had to take on outside help in the mailing of our subscription copies (the PO don't do bulk mailings, and it was a bit much to expect Carrie-Anne in Somerton to post off several thousand magazines every month).

So, as from now, all subscription mallings (and therefore all complaints and enquiries) are being handled by:

Paul Edwards Avon Direct Mailing Unit 12 Old Mill Road Portishead Bristol BS20 9ES

8000 *PLUS*

The sizzling July edition of 8000 Plus will be in the shops on 23 June. Stay cool, reserve your copy now!



Hard Disc competition

After a great deal of unravelling our judges decided on the correct solutions to the Hard Disc competition in the March issue. The correct answers to the spaghet-like tangle of data disc to programs was deemed to be 1- word processor; 2 – accounts; 3 – database; 4 – graphics; 5 – spreadsheet. The number of entries was the highest we've

ever had for a competition – well over a thousand. The two lucky winners picked at random were: 20k Hard Disc: Dale Mellis, Richmond, Surrey; 10k Hard Disc: Gordon Ball, London.

Your hard discs will be with you just as soon as we've reformatted them. Our thanks to ASD peripherals for supplying the prizes.

THE CATALOGUE

Software for PCWs and PCs

It's all in the latest NewStar Software Catalogue, complete with introductions and explanations to the various subject headings. Information to help you choose, presented in one complete catalogue.

There isn't room in a single advert to show you the comparative merits of the various databases, accounts packages, wordprocessors, communications software or spreadsheets.

But there certainly is in 48 pages!



What'n Offer

If you've missed Amstrad's typewriter trade in promotion on the 9512 don't despair. Kador have introduced a special offer of a free 'Peace'n Quiet' Acoustic Box/Printer Stand free with every PCW 9512 sold.

The box, which normally costs £38.95, holds the PCW's rather noisy daisy wheel printer and reduces the noise level considerably. Kador suggest that

the atmosphere of peace and tranquility that this will create in your work place will produce savings "both mentally and financially".

Just in case you're not convinced the company are also offering a £3 yougher for Kador products for every £50 spent on an Amstrad computer and/or printer bought from the company. For further details phone 0443 740281.



Address Mark Search Party

Ever wondered where all those address marks go - the ones that always seem to be going missing. Disc Recovery Service of 81 St Leonards Road, Bradford BD8 9QE are offering a free service to 8000 Plus readers to look for them - or in layman's terms to try to recover data from damaged discs.

All they require is a formatted disc for every damaged one you send and, of course, a stamped addressed envelope. They suggest allowing 10 days for your repaired disc to return. Well you certainly don't have much to lose.

David Smith, an old friend of 8000 Plus, who repairs discs in return for a small contribution to charity is also available again to take damaged discs. Anyone interested should read his letter in Post Script.

Looking for Adventure

You can bring a lot of adventure into your life if you take advantage of the latest offer from Topologika. who have just introduced a new deal for bulk sales of their adventure games, Instead of having to spend £9.95 on each of their first four games (Countdown to Doom, Kingdom of Hamil. Acheton and Philosopher's Quest) you can save up to £3 per disc. For instance if you buy all four discs you need only pay £6.95 each and for any three discs you pay £7.95 each. Buying two saves you £1 per



The company have also cut the cost of 'Yes Chancellor' their simulation of British economics to £9.95 and they have released a follow up to Countdown to Doom, the new Return to Doom for £12.95. A third part of the trilogy is expected later this year. For details phone 0733 244682.

Jumbo

Packs His Trunk

Just as soon as we carried the review of the Jumbo BASIC programming aid, CNS Services who produce it decided to move. Jumbo is the disc full of descriptions of each Mallard BASIC command and the syntax, ideal for all absent minded programmers. Anyone looking for the company should try 0736 752061.

How does a good idea by Ronald Reagan (president of the United States of America) put up the cost of a PCW 8256 by £50? Well it appears that US federal action is being blamed for the rise in the price of D-RAMS (dynamic ram chips) which, in turn, has led to a price increase in the basic single drive machine

In a bid to reduce their budget deficit the Americans set up trade restricting on Japanese chips. So the Japs cut production and then waited for the price to rise as the shortages appeared. Now the 256k RAM chips cost \$3.75 each instead of \$1.50

So now the Americans are paying the same money for a smaller number of chips and PCW users are having to cough out another £50 up to £349 + VAT for the basic model

The end of April, in effect. also saw a price rise in the new 9512 at the end of a nationally advertised promotion that had sent people scrambling into cuphoards looking for redundant type-writers. Now you will have to pay £499 + VAT for a 9512 even if you have an old Royal to

This brings it up to date with the 8512 which has already risen £50 (as reported in our April edition) and most of the Amstrad PC range, Amstrad are confident that the price rises will not affect their market according to the press release announcing the price hike

Amstrad's sales manager Keith Collins said "The D RAM situation is affecting all computer suppliers and we will see a number of price increases in the coming months. In order to maintain our high level of advertising we must maintain our margins. Our Spring sales offensive, amounting to some £8 million is in full flood and I believe that the price increases will have little or no impact on end user demand.

Not that the 8512 price increase has made much difference to the sales of that particular model. Since some time before the 9512 was launched there have been shortages of the machine until now even if you were willing to pay twice the asking price of £449 + VAT you would have difficulty laying hands on one.



NEWS PLUS

Wheel in the dealers

Amstrad have launched a programme of software dealer training courses aimed at the company a 250 strong dealer base. Dealer's employees will be locking from all round the country to the company HO at Brentwood for the day long courses. During this action packed day the delegates will be trought "the latest selling techniques" according to the company blurb.

There is an entry fee of £50 on registration but on completion of the course each delegate gets a £50 voucher redeemable against Amstrad business titles.

Amstrad's software and periperals development manager Peter Roback, who will be responsible for courses said "Although recognised in a recent survey as the UK's leading software publisher by volume of units soft we feel we can increase our sales still further by increasing wareness of our products and actively helping our dealers to sell more efficiently.

The normal courses will concentrate on SuperCalc, Wordstar, InfoMaster and AccountsMaster atthough there is a special course on the MC2400 modern planned.

DTP aid

The desktop revolution goes on apace with three companies launching products this month to make life easier for desktop publisher program users.

Wadd Soft of Lytham St Annes (0253 721303) have launch Headlines a disc costing £7.99 which includes 12 extra fonts and several pages of extra clip art for Database's 'The Desktop Publisher'. It also includes two sets of large letters for pasting in which, it is claimed, overcomes the problem of ragged edges that 'The Desktop Publisher fonts suffer from in the bloger sizes.

And at the same time 'Mr DTP' (that's the company name – not a mipsirin') of Lowestoft have just produced what they describe as the first three discs in the Mr DTP Graphic Library – full of useful clip art that can be used in 'The Desktoo Publisher'.

There is a fair amount of general stuff although there are discs covering specific subjects like Sport, Transport and Animals (no Ilamas). You can buy one disc for £14.50, two for £13.50 each and all three at £12.50 each it you write to 32a Rumburgh Road, Lowestoft, Suffolk N132 4.LL.

Sumök Nr324 »L.
And finally Dragonfly Designs of 58, the Strubblands, Horsford, Nnorfok NR10 >SE, who specialise in fortis and borders for all the DTP packages is just about to launch a series of clip-art discs of useful images drawn by artist Michael Manages from and ink drawings, scanned from the artist's pen and ink drawings, are an attempt to provide grawings are an attempt to provide control to provide with the control type display provided with most DTP packages. The discs will not \$7.45 acts.

Yuppie Love

Daatafax, Kempston Data's personal organiser program has come up with the ultimate addition — you can now print out graphics in your Filofax (or compatible). Daatafax can take graphics from the Desktop Publisher or Masterscan and print them out in

the correct format to fit your ringbinder pages.

Now the Yuppies' world is their oyster. They can carry maps everywhere in case they can't find their way home and they can scan their favourite cartoons from 8000 Plus and keep them for all time.



IT'S COLINS - HE'S ALWAYS LEAVING HIS FILOFAX LYING AROUND ... "

Carried across the Atlantic

Following Alan Sugar's lead Sir Clive Sinclair has taken a giant leap across the Atlantic with his 288 portable computer. Sir Clive's company Cambridge Computers Ltd has signed a deal with US grocery wholesalers Diversified

company Cambridge Computers
Ltd has signed a deal with US
grocery wholesalers Diversified
Foods Inc. The company are going
to be even more
diversified with
the addition of a
new subsidiary
Sinclair Systems.

Inc which will sell the computer and peripherals in the States. The initial

order is for 13000 units, worth \$7.1 million at retail prices. All manufacturing will still take place at the SCI UK plant in Scotland. Ron Giguere, president of

Hon ciguere, president of Diversitied Foods Inc used his expert grasp of the American idiom when he stated "We are in the process of establishing 10 regional distribution centres and are utilising our experience in merchandising consumer electronics goods to market the product nationwide."

The Z88 weighs under two pounds and is the size of an A4 pad of paper. It comes with built-in wordprocessor, spreadsheet, database, diary and BBC BASIC. It can be linked to a PCW (through an HS232) to download and print files.



PCW Aspirin

If you think that getting to grips with your PCW is enough of headache SBS have come up with an answer to one of the other causes of sore heads amongst users – screen glare and artifical light reflections.

The latest product on the SBS list is a new screen filter countoured to fit the PCW's casing and attached by self-adhesive Velcro strips. This can be removed to allow cleaning of the casing, screen and the filter.

The filter is made of LEXAN Acrylic – which the makers claim has the advantage that it does not distort characters. It can be cleaned using standard VDU cleaning products. And all this for only £14.95. For details phone 0273 726331.

And if you're eyes are still tired and strained and you're desperately keen to type in this month's 8000 Plus listings why not invest £4.75 in a Line Reader from Philipar Ltd of Minehead (tel 0643 6891).

This strip of transparent pleatic magnifiles any text under it. So you just lay it on the line of the listing that you are typing in and it takes on much more imposing proportions. It also helps greatly in keeping track of where you are on a listing – very handy now we are publishing longer more combilicated programs.

CAN YOU ACCESS ALL THESE SERVICES ON YOUR MICRO...?







FRINGE BENEFITS

Sharon Bradley gives you a quick guided tour of PCW add-ons

Every other advert in Amstrad magazines seems to be for one more indispensible add-on – PCW cabinets, paper aligners, things which stop your keyboard spreading contagious diseases... hundreds of products to save time, save space or protect your machine. But which are a genuine benefit, and which merely jump aboard the Amstrad bandwagon? These are some of the things we think you might actually find useful...

? These are some of the things we think you setul...





- 4 Crown's carrying case for the 9512
- 5 Kador's range of add-ons for the PCW.
- 6 The Com-Stax workstation
- 7 BBDs PCW dust

udging by the 8000 mailbag, the items of hardware causing most interest are screen filters. VDU (Visual Display Unit) filters (or rather the lack of them) have been stirring up more than their fair share of controversy in the press recently. Alarmists would have us believe that by sitting in front of a VDU for hours on end we were exposing ourselves to harmful infrared and ultraviolet rays. The incinient panic was deflated by the Institute of Ophthalmology in London who stated that we were all exposed to more infrared in everyday life - waiting at a bus stop, say - than by sitting in front of our PCWs. Health problems that occur are caused not by the VDU itself but by the various conditions in which they're used. That annoying flicker that we've all experienced at some stage or another is one of the major causes of operator headache, for example (along with typing ERA *.* instead of ERA *.BAK).

What screen filters are really good at doing is combatting the effects of sunlight: they eliminate glare, heighten the contrast on the screen and improve readability. Instead of a murky, squint-inducing lime-on-grey, you get a better green-on-black contrast.

The simplest type of filter (VDU Technology's model at \$14.50) is a screen-shaped piece of grey plastic which sticks directly on to the glass face, though it tends to require the help of sicky tape after a while. Alfa Electronics' filter is a square of mesh (which DIY enthussats swear can be imitated by stretching a piece of chiffion over the screen) fitted onto a plastic frame which sticks not to the body of the monitor. VDU's filter produces clearer contrast, but the Alfa filter (at \$17.35 but shown on reflection better.

If money is no object then the Accodata filter might be worth looking at. Though it's expensive – £64.50 to £74.50 bytes VAT – it gives you lots of features to show your friends, such as a roller blind filter, a metallised mesh to block emission and an earthing cable to reduce static.

For those worried by static, the Static Buster claims to provide an efficient static control system for the PCW and its user. For £44.95, it will send static charge from the keyboard and terminal and send it to earth, though why this should be a good thing is questionable.

Copy catalogue

There are a number of devices to hold up documents for copy typists to read from. The Thingi (as it has memorably been named) is a simple plastic ruler-resembling device which attaches to the top of your PCW with Velcro, and sticks out horizontally from the side. It has a small owner which you attach the text that you need which you attach the text that you need which you can then

easily refer to at a glance. It seems able to hold up reasonably heavy items – say a





- 1 Alfa's margin maker and screen filter
- 2 The stick-on VDU filter from Visual Display Technology.
- 3 Re-usable disc drive cleaning kit from SBS.
- 10 8000 PLUS

copy of 8000 Plus open at the Tipoffs page, £9.95 is a lot for what is effectively a crip of plastic. Lut you quickly find you can't do without it. There are right- and left-hand sided models. Rador, popular accessory manufacturers, have even gone so far as to produce The Devette – which for £5.00 combines three operations in one product: copy-holder, clip-board and writter-wipe board. It performs fairly adequately; the only problem is, the heavier the text you clip into it, the more unstable it guickly becomes. Despite its writter-wipe facility its unlikely you'd use it to write your shopping list on; it suffers a bit from trying to de verything.

More sophisticated 'anglepoise' copy holders for around twenty pounds can also be found in the large mail-order ads. They're certainly a lot sturdier but the price makes them best suited to professional heavy duty work.

Key coverage

For those PCW addicts out there who quite frequently find themselves stifting bleary-eyed in front of their green screens in the early hours of the morning sustained only by a seemingly endless stream of black coffee, or for hose of us who are just plain clumsy, Kador also do 'Saai'n'Type'. It is a transparent, e-usable spillicover which fits, like a fitm, over the keyboard, in laboratory conditions it protected the keyboard, and severy drive available from the Future Publishing coffee machine. It didn't affect normal use of the keys either. Again you have to decide whether E1.01 fis a worthwhile investment (enthusiasts calm cling film can be used instead).

Richman Software's Menu-Mate is a plastic cover which fits over the kepboard and offers you a foolproof system of reminder templates. Operational commands and instructions or the entire at a glance, reminding you to save the work you're currently busy with, for example, it also provides simple instruction on some offers of the more commonly used LooScript (1 and 2) procedure. At £5.99, it's probably a useful add-on for your PCW, especially if you're a LooScript 2 devotee who has as yet failed to penetrate its darker mysteries.

The problem of how to keep your discs organised is a common one. The Plonker Box (honestly), again from Kador at £4.99, is a small box which sticks on to the side of the PCW and holds your everyday discs. If you use a large amount of discs, the AMS disc storage box for £12.95 seems good value. It's lockable (so intead of Just stealing one disc, they'll have to steal all your discs) and holds up to 21 discs in individual partitions. If you hunt around your high street shops, you may find a cheap card index box which will do as a disc holder.

Printer add-ons

The printers supplied with the PCW are extremely good

All Clear Ahead!

To ensure spiritum quality printed. It's usually a good idea to very surfarler a stocking to the spiritum and the spiritum an

SBS have developed Cleanprint (£9.95) especially for the Amstrad range and is the first re-usable 3" disc drive head cleaning kit

available. It comprises a cleaning cloth disc and specially formulated cleansing solution. Once inserted into the disc drive it will pick up all the harmful oxide particles deposited by the disc and in the long term protect your data and prolong the life of the disc drive.

cause and proteing nee in or the size circus. Of course, a good way of minimising the amount of grime to which your machine is subjected in by investing in some dust covers. Usually low-costing and very durable covers. Usually low-costing and very durable stamply by covering it over when you're not usually covering it over when you're not usually in the machine to deal the protein of the prot

budget models. The only complaint most people have is that precise paper alignment is difficult; if you want to print out for your personal organiser with the text right up against the left hand edge of your paper, or print in two columns by feeding the sheet in a second time, you have only guesswork to rely on.

Paper guides are accessories which clip onto the printer and feed in the paper (furnily exoupt) in such a way as to precisely align the margin. Feed "riprint, from Kador, has sliding markers and scales in pitches 10 and 12, so as well saliding markers and scales in pitches 10 and 12, so as well as being instantly adjustable to whatever paper you happen to be using, it will also centre At. Kador have recently produced a paper feeder suitable for the PCW 9512 daisy wheelorinter, orice at 12,9.85 inclusive of VAT.

Suppliers of the MM3 take great pride in pointing out that is margin maker has been designed exclusively for the Amstrad PCW range and that it has not been imported from another model. Like the paper feeders it will probably save you wasting reams of expensive letter-headed paper because of workly margins. The MM3 successfully corrected any tendency of the paper to sitile (especially continuous stationery) by means of two arms which also accurately replace it if it needs to be reinserted. Again, at 21.25 oi t would probably be a good investment for businesses though PCW hobbylsts wouldn't use it so much.

There is, as yet, no sheet feeder for the PCWs. If you're doing a mail merge run on letterheaded company paper, you have no option but to feed in the sheets manually. Surely there's a market there to be exploited by someone?

Furniture music

There's been a flurry of activity recently in the computer furnitum manufacturing business. Deputer for the computer furnitum manufacturing business. Deputer for the computer for force for force for force for force for force force for force force for force force for force f

discs, paper, coffee, biscuits etc. But at £29,95 as a flat ready-to-assemble kit It does represent remarkable value, and looks very stylish too.

Elimo UK. Ltd. can offer a much larger model with more sophisticated features – pull-out files, shelves, a worktop etc. – called brabbes. Although it wasn't designed exclusively for the PCW, at £12.00 inclusive of VAT its probably still a very good buy, sepceially when you bear in mild the excrohitant prices of standard office furniture these days.



Racket protection

The 9512 daisy-wheel printer has long been renowned for the racket it makes and its ability to halt all telephone conversations within a ten-mile radius. In an enclosed working environment, this is guaranteed to drive you berserk, especially if you're feeding it continuous stationary. Various suppliers have come up with a compact, lightweight acoustic hood which dramatically reduces the noise level to the extent that you can easily carry out even a very intelligent conversation next to it and continuous print-runs are no longer quite so nerve-fraying.

Amount do a hood for 8000 printers at £89.95, while Kareware's model costs around the same.

Colouring up

If you're bored of ordinary black and white printout, and would like to bring some life into your reports (especially useful for presentation documents) colour printing sounds fun. SBS Computer Supplies have a range of nylon colour ribbons for the Amstrad 8000 series and the 9512. They are available for £4.25 each in 5 colours: red, green, purple, brown and orange and are fairly easily inserted - as soon as you want a change of colour - by arresting the printing procedure. In a LocoScript document, for example, you'd press [PTR] and then [EXIT] to resume - so unless you

have a good sense of timing, it might be tricky to pick out individual words in a different colour!

The same company also supplies reusable nylon ribbons for the PCW 9512 which will shortly be supplanting their carbon counterparts and prolonging ribbon life by 4 or 5 timae

Portable PCWs

Until someone comes up with a genuinely portable LocoScript machine, we'll have to make do with lugging the PCW around. Crown Computer Products have a range of transportation cases, each case being specifically designed for the machine that it will hold, for around twenty pounds, They're not particularly cheap, however, but the suppliers are eager to stress their durability and their protective properties.

Often the simplest things are the most useful. Different people swear by different products, but most people will find a screen filter, a copy holder and possibly a printer hood worth the money. Careless coffee drinkers would do well to get a keyboard cover too. The paper aligners will be very useful to anyone writing business letters

All these bits of hardware may not do things quite as exciting as your desktop publishing program or your adventure game, but they're all handy things to have, and are guaranteed to be free of bugs!

Directory

This list is by no means comprehensive, but it will give you an idea of where to start. Most accessory suppliers advertise quite extensively in PCW publications. All prices include VAT unless stated.

Screen Filters

Visual Display Technology (01 368 9555/0666) £14.50

Accodata (0732 885555) £64.50 to £74.50

Aifa Electronics Ltd (01 390 2588) £17.95 to

Amgard - Computing Plus (0993 881912) ¢59 95

Paper aligners

Margin Maker (0784 52677) £12.50

Kador (0685 87051/883663 Ext 217) £7.50

Aifa Electronic (01 390 2588) £7.50

Keyboard spillcovers

Kador £10.15

Disc Storage Holders

Plonker Box: £4.99 CF2 Pop-up Disc Storage Holder: £5.50 CF2 Lockable Disc Storage Holder: £10.95 (all from Kador)

Orion (01 852 3694) Sentry Supreme Model 5720 Media Fire File (fireproof disc box) £299.00

SBS Computer Supplies (01 434 0153) 210.95

Maintenance Kits

SBS Computer Supplies Ltd (01 434 0153) From £14.74

3" Disc Drive Head Cleaning Kits (Reusable) Available from SBS Computer Supplies Ltd Price: £9.95

Copyholders

Dexette - Kador £6.00

RSC Ltd (0923 243301/241921) £16.00.

Thingi - Little Office Computer Products (051 666 1190) £6.95

KCS (01 993 7855) £19.50

Colour Ribbons

SBS Computer Supplies From £4.84 excl. VAT

RSC Ltd £6.00

Acoustic Hoods

Kareware (01 833 2458)

RSC Ltd at £175.00

Acoustic box/printer stand - Kador £38.00

Computing Plus Price: £89.00

Workdesks

Elmo UK Ltd (01 836 6913) Price: £120.00

SBS Computer Supplies Price: £187.00 excl. VAT

Computing Plus Workstation with inbuilt printer at £99.95 incl

Crompton Computer Furniture (0908) 311544) The Compact Workstation from £119.00

Com-Stax (01 373 4979) £29.95

Dust Covers

BBD Covers (0257 422968) From £11.95

Transportation Cases

Crown Computer Products (0704 895815) Printer case: £10.40 excl. VAT PCW 8256/8512 case: £17.50 excl. VAT

NOTES IN THE DARK? Light them up with CHIBASE!

CHIBASE is specially designed and written for the PCW by Chiasma Softs

This is how Chibase could work for you:

 You can use Chibase to replace an indexed cardfile or notebook. A Chibase record sponds to a card in the cardfile or a page in the notebook

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- A single key command causes the edited text to be stored as a record on the database. The keywords will be stored in an index. The software uses the index to find
- You can selectively retrieve records by means of an enquiry which is just a list of keywords. Those records which include the listed keywords will be retrieved. You can also retrieve only those records whose keywords include some minimum number of the keywords in the list.
- Some features of Chibase Fast and easy to use: No complicated syntax to learn.
- Free format text up to 23 lines of 80 characters per record.
- . Keywords up to 15 characters. Up to 50 keywords per record. An Index of keywords is automatically maintained by the software. You can view or print the index.
- Form facility, if required, helps you to position text within the records. Move between parts of the form by pressing the TAB key.
- Export/Import facility enables you to move English text t or from your word processor
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- . High capacity achieved by automatic text compression and true variable length

MMZ 9512 PRICE ONLY £49.95 inc CWMBRAN COMPUTER CENTRE CWMBRAN COMPUTER CENTRE pt. Ep), 3-4 Ventnor Road, Old Cwmbran, Gwe hone: (05333) 50996 or 01-399 9758 (24 hours) Access/Visa welcome Ogen: Mon-Thur 1.30pm-7pm. Sun 10.00-1.00

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ONTEST

QUICKIES!

Extra fonts for Stop Press owners and a clock attachment for your PCW

COMPLEMENT FONTS & RORDERS

£12.50 • Dragonfly Designs (58 The Shrublands, Horsford, Norwich, NR10 3EL)

When the PCW came out at first everyone was thrilled with being able to print in italic. Now that people are used to fancy DTP fonts the craving for new and more striking fonts becomes compulsive. And acting as 'pushers' Dragonfly Designs have come up with new fonts and borders for all the main DTP packages

Of course the Complement discs do nothing that you couldn't do yourself - if you had the time and the flair. Most of the DTP packages provide the ability to design your own fonts. But, as anyone who has tried to design their own font knows, it is a very time-consuming and often totally frustrating exercise. Even some the fonts that are provided with DTP packages showing glaring inconsistencies that send you leaping for the font editor. It's a pleasant relief to find something that does provide you with good, consistent, easy to read fonts with a touch of flair.

The latest Complement disc, designed to work with Stop Press marketed by AMX, is one of the best. Because Stop Press has its fonts designed on a full 32x32 grid the new Complements fonts can be simply loaded and used as

PERFORMANCE RANGE OF FEATURES DOCUMENTATION EASE OF USE

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normal. This is an advantage over the DTP packages that have 16 by 16 grids (Fleet Street and Desk Top) as the characters have then to be cut and pasted as graphics - a far slower and more laborious task.

There are 11 fonts on this disc. Apart from the Rune font, for Tolkien fans, and a particularly modern 'Techno' font the characters are all eminently readable and a touch more artistic than the standard character sets. They are mainly

The quick brown fax tuped everythingin IDeco2

The lazy dog preferred Povezu 1

based on Art Deco and Art Noveau styles which translate very attractively on to the screen. As always the printed output isn't so good but they are still above average.

The other main constituent are the pieces needed to make up fancy borders round your picture. You can build up corner and side units to frame your text in a variety of impressive Celtic and Art Deco styles.

Setting these up is not the easiest of jobs even with the solid positioning of Stop Press. However the finlshed product does look impressive right down to the twin rose design you can use to fill the bottom of the page. Another advantage of the Stop Press version is that the DTP package has the ability to reverse and rotate the elements meaning that you can re-use the one corner unit for the whole border

REAL TIME CLOCK

£59.95 • SCA Systems Ltd (0903 700288) All PCW's

As anyone who's worked into the small hours could tell you. it would be nice to have a clock on the PCW which shows the real time. But as Amstrad didn't see fit to install one on the PCW, would it be nice enough to warrant the investment of £30 or £40?

But if you need an RS232 interface (the box that fits on the expansion port to connect to another printer, modern or another computer) and it happens to have a real time clock in it, suddenly it sounds more interesting. And when you hear that this costs only £59.95 hardly more than the normal RS232 it becomes quite fascinating.

The PCW has an internal clock which you can use for various timing processes. The problem is that every time you switch on the computer assumes that it is the first seconds of the 15th December 1982 - the moment that time was invented according to the PCW.

Of course you can reset the time, but with an SCA interface and a command in your PROFILE SLIB the PCW reads the correct time from a battery-backed clock in the interface. It isn't totally accurate as it can't keep track of seconds so you could be up to a minute out, but this shouldn't

worry too many people.

The other advantage is that you also have the full serial and parallel interface there every time you want to run a printer or to hook up to a modern or another computer. The interface can handle baud rates of 75, 110, 300, 600, 1200, 1800, 2400, 4800, 9600 or 19200

To make best use you should have it fitted constantly but this is quite sensible if for no other reason than to avoid damage to the delicate edge connector. However it doesn't have any 'piggy-backing' extension so that could cause problems if, say, you wanted to use a mouse.

It comes with a demonstration disc and a printed manual which although not totally lucid does give you enough information to get to grips with the interface.

RANGE OF FEATURES PERFORMANCE 100 DOCUMENTATION EASE OF USE 8000 PLUS VALUE VERDICT ----

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A simple to use introductory database. Design your own record card on screen in minutes with up to 250 items of information. Storage is disc based so it is not limited by the memory. A Help Panel is included for new users. Records are kept in constant sorted order and are instantly accessible by name or number. Manual or automatic search options and facility to re-sort the file. Mailmerges with locoscript and outputs ASCII files. Reports and totals. Example uses are mail lists, stock inventories, booklists, client information and much more.

LERNLOCO (PCW) £16.95

A step by step tutorial to gain a full understanding of the LocoScript wordprocessor. Many exercises are included to give experience and confidence. Users soon gain confidence and even create their own nersonalised manual

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"This is not just a beginner's program it contains enough sophisticated features to suit the needs of most people". 8000+ July 87.

" First Caic performs admirably, the price is unbestable and it is simple to use." Amstrad Action. Sept. 87.

CALLING THE SHOTS

Trouble with mail merging in Mini Office? Manual no help? Don't just have a shot in the dark: Rob Ainsley sheds some light in part 3 of our series....

> es, fine, we all know there's a good database and a good word processor in Mini Office - but how can you use that database data in mail shots? After all, most databases are used for club or company records. where mail shots to members or customers are a large part of the job. Being able to link the two is one of the most powerful features of Mini Office; given a few minutes' work you can print out at a stroke letters for all those names and addresses stored in your database with the names, addresses and even other details of each person automatically put into their letter.

Suppose you've stored your book club customer database in a file called CLUB.DBS, containing each member's name and address somewhere. The key to mail shooting lies in a file called CLUB.MRG, which saves these details in a form the word processor can understand. You can then write a letter and leave slots of a fixed length to be filled in by an item from this 'merge' file. The word processor will churn out a letter for as many people as there were in your database, filling in the slots for each.

Fields: 18 Records Defined: 5 ▲ The list of fields in the original database

Start Point

So, the first thing is to load up Mini Office as usual select the database, and insert your data disc with the database file on. Load your file CLUB.DBS from the 'Load/Save' option in the main database menu. Then from the same menu take 'Save mail merge file' giving the

Pedant note

loosely to mean the program which manipulates your information, or the file on disc in which the information is stored, or just the information itself in a general sense. To confuse things further, the compa which manufactures Mini Office is called Database Software



(You can't change the .DBS or .MRG endings).

If you want to send letters to only a certain selection of those on the database - for example, just to customers who owe you money - you'll have to split them off to a separate database. Use 'Search and mark' as described last month to mark off all debtors which are saved ('Save marked records') to a file DEBTORS.DBS, and then make a mail merge file out of these.

Now replace your Mini Office disc and go into the word processor via the main menu. When it's loaded up you can re-incert your data dicc

Select 'Database' from the main word processor menu. You have the ontions to 'load' or 'view database' or 'assign strings'. These are the three stages you go through before beginning your mail merge letter itself - first you load the mail merge file you just created into the memory of the PCW, then view it to check the right information is loaded up, then tell Mini Office how you want this information organised into your letter.

Select 'load database' and load the file CLUB MRG (not CLUB.DBS or you'll get the worrying message 'failed to load record'). Back in the same menu select 'view' and you'll see the items in the first record of the database together with the number of each field. If there's something wrong you'll have to go back to the database and re-save the merge file.

Strings attached

Then from the same menu, take 'Assign strings'. This is a list in which you assign fields of the database to numbers suppose you assign the 'surname' field to number 1. When you come to write your mail merge letter, every time the code 'D1' appears in the letter, the contents of the 'surname' field will be inserted. Similarly if you assign the 'first name' field to 2, then every occurrence of 'D2' in the letter will result in the contents of the first name field being substituted.

To assign the surname to number 1 as above, use the cursors to move down to '1' and press D to signify a field from the database. The next number you enter is the number of the field from the database, so you'd better have a list of which field is which somewhere! To avoid confusion it's probably easiest to make field number 1 from the database be assigned to number 1 in this list, though you don't have to. In the original database, surname was field



▲ 'View database' shows you which field is which

number 1, so the number you type is 1.

Next you define the length. The length is fixed - make it shorter than the longest surname and some surnames will get truncated so play safe. If you can remember the length you defined for the field in the original database set up that'll do nicely.

Carry on for all the fields you might want to put in the mail merge letter. Of course if you want to play extra safe you can just assign every field to the same number in the

Instead of printing a field from the database, you can tell the word processor to print a piece of text every time it sees one of those 'D' numbers in the mail merge letter. For example, you

could assign today's date to the number 0, and then all your mail merge documents with 'D0' in the text would automatically print the correct date at the position of the 'D0'. Instead of manually editing all your various mail merge letters, you'd just assign today's date to the number 0 by pressing S instead of D above and the typing in the date.

DROFFECTIONAL Word processor

Extra, extra

When the 'assign' list looks right, EXIT and start working on your mail merge document. All you need to remember is that pressing EXTRA-D followed by EXTRA-0 will put that 'D0' code mentioned above into the text, and similarly for the other numbers. It's distinguished from normal text by being printed in dim letters. Every dim 'D0' is a slot for the date, every dim 'D1' is a slot which will be filled by surnames from the database, and so on.

Suppose you've matched each field in the database already defined with the same number in the assign list, ie D1 is the surname (length 15 say), D2 the initials (length 1 say), D3 the title (suitably long) D4 to D7 the address, D8



▲ Assigning the strings and database fields

and D9 the books ordered. D10 the amount owing. Your mail merge letter would begin something like:

The Book Club June 8th 1988 55 Bombay Rd Beverley East Yorkshire

mans formers a columns for the following amount at your anytimes D0 D4

Yours eincerely Dear D3 D1

D6

As a valued member of our book club, we're sure you'll be interested in our new summer catalogue...

Blankety blank

The space occupied by each slot for databas items in a mail merge letter is fixed, and Mini Office isn't 'smart' enough to close up blanks. If you leave ten spaces for a first name then ten for a surname, the name 'J Smith' would come out as J Smith while 'Srinivasraghavan Venkataraghavan' would be truncated to Srinivasra Venkatarag. It follows that you can't try anything fancy, and it's best to keep slots by themselves on a line — as they would be for names and addresses at the head of a letter.

When you set up your database, you can avold a lot of trouble by having a special field called "title", say, which contains items like "Drinthi," Field Marshal Montgomery' etc., in addition your normal surname and initial

There are no conditional facilities in Mini Office's word processor – you can't include commands to the effect 'only say we'll send the boys round if the customer owes us e boys round if the customer owes us oney as you can in mail merge programs oper. The best you can do is to separate the btors from the non-debtors back in the tabase and do mail shots for each, which

may well be OK for many purposes.

While Minl Office is fine for simple mail merging, more sophisticated requirements such as the 'You, Mr Taylor, have been chos such as the "tod, wir laylor, have been chose out of all the people in St Amiga Rd to take part in our prize draw' type letter, or ones where the content may vary from person to person, will have to be done on a mail merge which closes up blanks such as LocoMail or

Remember that if you want to include some info in the middle of the letter - the list of books each person has ordered. perhaps - put them in a line by themselves:

...We have received your order for the following book (s):

and will be sending them to you very shortly

Sometimes you might be able to get away with putting an item at the end of a line: We note with some concern you still owe us D10 Please pay up, we wouldn't want anything to happen to you

When you've finished your letter, you can see how it looks on the screen. EXIT back to the main word processor menu and take the 'Print' option, then select 'Preview' from the Print menu. You'll see a letter for each item of the

database being written to the screen, and you can stop them flashing past your eyes by pressing, surprise surprise. STOP and any key to resume. If there's something wrong you can go back and adjust your main document until

everything looks right. To print the lot out, go to the 'print' menu as above but set up the document using the 'set up printer' option. You'll

probably want 'number

of copies' as 1. The rest of the options should be reasonably straightforward, though unless you have a recent copy of Mini

Office, read the margin note! When you do get it right, you can relax and let your PCW and printer do all the hard work churning out the letters.



Never used the

word processor? The word processing module would need a whole tutorial series by itself to cover completely. If you're just doing a straightforward mail shot letter you can probably get by on your wits and just the cursors, tabs, and delete keys. Loading and saving files is done by EXITing the word processor menu and going through "Load/Save

Snug as a...

Yes, yes, we know! There are a number of reported bugs in early versions of the word processor. You can, say manufacturers Database Software, get a free upgrade by returning your bugged version to them with a covering letter. Database's number is 0625 878888

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HELP FOR BASIC PROGRAMMERS

Anyone who has dabbled wih Mallard BASIC will ive come across the moment of truth when they just can't remember - what is the difference

between SPACE\$ and SPC, which number is which after MIDS, or even, how do you switch on a switched-off cursor blob?? Maybe there is someone who can remember every command in Mallard but they certainly don't work for 8000 Plus

Now since the launch of the Jumbo disc you have two choices, 1) You can use the old method of spending 10 minutes looking for the BASIC method, another five minutes finding the right command other 15 minutes discovering you're still not totally sure of the syntax and a final 20 minutes working out how it works by trial and error. By which time of course you have probably forgotten what you wanted to do in the first place. Or

2) Use Jumbo and find out what

ne command does in minutes. Jumbo is simply a disc with nearly 200 files sting every command in BASIC including a few you haven't even heard of. The dea is that when you get stuck for the right command or syntax you just call up he directory (type d). This is in effect a list of file names

M MITTER WEST

reased for 1.

The enter of x is printed

dition is not not then the program jumps to the statement immediately failur

ndition is not all the statements between the WELLE and the WENG are or

The program Josep back to time 20.

Executes a given set of statement(s) until a given

coted it checks to see if the condition has been met

HELPMATE FOR ALL PCW OWNERS

If you want to find out what Fetchkey\$ does you check the list and find that the file with the details on this command are kept in a file name FKEY (you

just type in the capital letters from the name FetchKEY\$ becomes FKEY). Then just write type fkey and the file appears.

It has all the Jetsam commands, a file listing all the escape codes for useful functions (everything from reversing the screen to defining a window) and a file with the full ASCII code and character set. There is also a page of keywords on various topics and a run-down on the bit-wise operators (AND, OR etc). The advantage is you call these up without affecting your working on

The idea is basically so simple you feel as if you could do it yourself. There is no program or anything too clever - it is simply the basic (or BASIC) facts simply laid out with

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Few PCW owners have made the great step into the world of comms. It's a chicken and egg situation; until more people get into E-mail (electronic mail), is it worth the money and

effort?

Perhaps part of the reagon is the eliting that is no much a logging on to the average bulletin board can seem malificiously discurse and complicated to the novice. There probably is a feason why users should have to remember a code like 'A21'820100472' but, as it is never fully explained, it does seem a little like bloody-mining diness.

The expert, sheped in "baud rates" and "protocols" can easily take in the exphisitication of the new Micholink multispeed modern. But there is definitely a need for some modern supplier to take the hand of nervous commis-illiterate beginners and lead them through the terrors of those early days.

All you need is cash

Microfink's package has everything the beginner needs. The basic ingredient is a multi-speed auto answer/auto dial, fully Hayes compatible modern – probably better known to the comms world as the Pace Linnet. But you also get the software you need and the cables to link it to an FISS22 interface, which can be supplied for only 258 if you require it. You even get a free month's subscription to Microfink's bulletin board – an ideal way to see what use you would make of it. For the existing comms enthusiast, already set up with this equipment and subscriptions, this would be a waste.

The software, a cut down version of Mini Office Professional with just the comms program and the wordprocessor, is certainly one of the easiest to get to grips with. Fully menu driven, it is reasonably easy to work out what most of the commands do by trial and error – just as well given the notrolously unhelpful manual. The world of computer communications is an alluring one. Connect your PCW up to the telephone network with a modem, and you can instantly access stock market prices, airline travel information, business data and much more. Everything you need to go on-line's says the publicity material for Microlink's new communications pack. Is this the peckage budding comms freaks have been waiting for?

There are neat features like the key definition files which allow all these long complicated codes for Microlink or Prestel to be saved on a file. Load that before you start, press the right Key and out somes the correct stream of figures and letters. Sadly the documentation is again

unhelpful. While it was easy to save a key definition file to disc it seemed impossible to find it again unless you called it "SETUPKEY". One called 'PRESTEL.KEY' just doesn't seem to show up on screen in the 'Load File' section although you can still load it if you can remember the name.

Like most good software packages there is a section that allows you to configure your RS232 to the correct baud rates, parity, stop bits and all those other things you don't understand. But better still there are six preset options for Microlink or Prestetl which you can choose in seconds.

The main problem for a beginner using Mini Office is that

Absolute beginners

there is just not enough information in the documentation for the beginner to feel totally confident. For instance in the section on buffers it is fine to know that the Buffer Control "will allow you to make fro better use of your communications link in Dumb TTY and VTS2 modes (not Viewdata") but unless you are told exactly how you do it, you could come away feeling strangly unsatisfied.

Save on a packet Time is money. The longer you

take to or surphing the bugger to be selected in the selection of the telectrone of the connection fee to a builden beautiful control fee to a fee to be a builden beautiful control fee to be a fee to be a builden beautiful control fee to be a fee to be a builden beautiful control fee to be a fee to be a builden beautiful control fee to be a fee to be a builden beautiful control fee to be a fee to be a builden beautiful control fee to be a fee to be a

8000 PLUS 21

ONTEST

Bulletin proof

Bulletin boards have basically two uses. Businessmen can make use of the 'gateways' - a way of accessing all kinds of information, share prices. company news, and press agency reports. They can make good use of the E-mail facilities an ability to quickly exchange messages with arwbody who has a Mirmink mall how lie is a member) or send a telex. They can book hotel rooms, check train timetables, book train tickets and even get legal artivino

Enthusiasts generally use it as a club. They can read messages left on notice boards (parts of the system given over to a specific subject), reply to questions or leave their own queries on the notice board



The same kind of problem carries on to the documentation for the modern itself. Very commendably it starts at the beginning and works its way logically through the process. But being all things to all men (ie. trying to cover use with any software) there is little to tie it in specifically with Mini Office.

One positive advantage is the auto-dialling. With less sophisticated versions you need a telephone handset to fit into the machine to hand dial a number. With this modem you can type the number in to your computer on screen and the modern automatically dials it and originates the call (a fancy way of saying it starts talking to the other modem). Better still, the micro-processor in the modern allows you to save up to 32 numbers - with a brief description to jog your memory. Simply by typing a reference number the full telephone number is dialled.

Used in conjunction with the key definition files in Mini Office you have by far the easiest way to log on to a bulletin board. It is not quite so bad if, for instance, you log on to Microlink direct, but if you go through PSS (Packet

SwitchStream - see the margin note) you have to enter long streams of figures in the right order at the right time. Just put the phone number (with the correct command to get the computer to dial it) and each code on a different f-key and you can be through without taxing your brain cells in the slightest

The other major sophistication is the automatic answering - the ability to leave the modern running to answer any phone call that comes in and receive a message from another computer. Comms is a twilight world; enthusiasts stay up into the middle of the night to make use of the services at cheap telephone rates. With this feature you can happily leave the modern set, go to bed and then examine to messages the next day, refreshed and relaxed.

But again this is marred by the sparseness of information in the manual. It is a powerful feature that definitely needs more explanation than is given. The manual gives all the information that the expert needs to get the most from the package so why isn't the beginner given the same help? It also doesn't help that all the information is spread over so many different manuals. You have to collate information from the Mini Office and modern manual and a booklet from Microlink

Setting the Pace The package described here is the upmarket version of the Starter Pack Microlink also provide a cheaper pack with a two enough morlam for COO. This s actually a rehadned version of the Pace Nightingale modern.

MICROLINK

- PLUSES
- Features to aid beginner auto baud rate
- All-in-one package modern, software and
- Supports XMODEM and KERMIT

MNUSES

- Documentation is unbeloful No step-by-step instructions for starting up

RANGE OF FEATURES PERFORMANCE

EASE OF USE

....

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DOCUMENTATION

Verdict

The modern is certainly sophisticated enough for anyone starting in comms (and most existing enthusiasts for that matter). As a complete package it should be be the ideal start for a beginner. Sadly this hasn't been carried through to providing the instructions needed for the beginner to get to grips with the pack. A simple guide, with jargon explained. starting from setting up the modem, through the use of the Mini-Office software up to logging on to MicroLink EXII would have made this package invaluable.

What is a baud rate anyway?

It seems ironic that a part of computer science dedicated to making communications easier should create such a breakdown in communications because of the use of jargon. It's not quite as bad as CB radio and at least you don't need to put on the phony American accent

But it is still a major put-off to be confronted with terms like 'baud-rate' and 'protocol' without a translator on hand. In simple terms the baud rate is just the speed at which the characters wing their way over the telephone wires. If you see a baud rate of 1200/75 that means that you can transmit at 7.5 characters per second and receive Information at 120 characters per second. Obviously the higher the baud rate the lower the phone bill but the greater chance of

The thing to remember about buying a more oblisticated modern like the one from Microlink is that you can forget about the more impenetrable details. If you are receiving data from another computer it will sense what speed it is coming in at and adjust automatical

It can be set to one of three speeds, 300/300 baud es called V21), 1200/1200 (V22) and 1200/75 (V23), which by a strange quirk of fate turns out to be the choice of rates that Microlink and Telecom Gold offers. This also covers Prestel which only runs at 1200/75 although the modern does handle the Viewdata 1200/1200 and 2400/2400 rates which will be available on Prestel some time.

Protocols are a clever method of making sure that the text you send or receive is not corrupted by noise on the telephone line. This is done by breaking the text into chunks (128 bytes) and sending an internal check digit after each section. If the receiving computer comes up with a different internal check digit it quickly works out something is wrong and

starts again.
Mini-Office Professional can handle the two best known protocols, XMODEM and KERMIT (no relation to the Muppet) and you can also send text in pure ASCII form with no check or In Expanded ASCII form which allows 7-bit systems to handle 8 bit information Again the Important fact is making sure you are using the same protocol at each end.

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CZECHING OUT THE PCW

Dr Stefan Rybar tells all about PCW life in the East Bloc

n Britain you own more personal computers than any other country. No matter how happy you are with your PCW, let's face it, you're just one among many; half a million PCWs, three quarters of a million PCs.... And most of you probably use computers at work.

But imagine yourself in a country where Spectrum rules supreme, facing only feeble competition from Commodore 64 or Atari. In conditions like that the PCW has come to be idolised, an instrument of revolution; at home, at work and in the computing education of an entire country

In the summer of 1986, I found myself in Britain. Not as easy as you might think, but thanks largely to the Helsinki accord and an invitation from my sister who's married to a Brazilian, there I was, I knew instantly what I was soon to buy and my wife, equally enthusiastic, sacrificed any thought of renewing shoes and make-up for the forthcoming year as she contributed something like half an average annual salary towards payment of the Amstrad 8256

Even the duty fees to bring my machine back into Czechoslovakia were not entirely negligible but I had my personal computer word processor and a printer. I work as a TV editor in the educational department and as such have to write about 40 pages worth of scenarios every month - in quadruplicate. And copiers are not very thick on the ground here, even if you can get permission to use them! Needless to say I enlisted the help of my PCW the very next day following my return.

whose notential was a completely unknown quantity. What I quickly proved to a lot of sceptical people was that the computer offered very real help in cutting down paperwork and making organisation easier. Even Gorbachev admits that there's room for improvement.

To cut a long story short, I was quickly voted the resident expert on computers and became the host of an educational programme on computing for secondary schools - thirty half-hour episodes, which meant a lot of writing to do!. Scripts started pouring out of my PCW. No matter how sensibly I told myself that using an Amstrad was one of the simplest things on earth to do. I still felt for a short while the euphoria that must swamp an inventor on the brink of an important discovery.

Other improvements were soon self-evident, proving that perhaps after all I did merit my newly acquired fame. Everybody began to take note of the sudden order that the PCW had imposed on my life.

Normally a very disorganised person, I fell an easy victim to LocoScript's friendly command-lines. Soon, after cracking the enigma of layouts, settings and templates, my PCW was to prove a powerful tool in getting to grips with bureaucracy and red tape. Paper hurdles cleverly constructed to bring the television editor to grief were quashed, reduced a matter of seconds for the printer. Even now, it gives me the greatest satisfaction to spit out things like that dismissively in draft quality, reserving the high quality

facility for all my more serious work.

Spreading the word

How can I share with you people who live in a computersaturated society the effect of that first computerised scenario? Really, when some people looked

at a simple document coming off the

picked up the disc. Yet we

restrained our enthusiam,

evil Western invention

printer, they were speechless, and their fingers trembled when they

Moving up Having successfully mastered the paperwork. I was promoted. In the perpetual power struggle within the reluctant just yet to kowtow to a

▼ Ah, so that's what ERA *.*

Accent note

At the beginning those elusive

since LocoScript 1 was unable to

LocoScript 2 does it all now, and

augn in kroner the £20 orice tan

wasn't too crinnling - you can't

magine how important these

apparently insignificant marks

reproduce them. Miraculously,

haceks and other accents so

vital in Czech were fornotte





▲ Who needs a photocopier anyway?

▲ On ar

department, the PCW began to assume the importance of a precious and fearful weapon. It was, for example, impossible to lose a memo, letter or script once it had been created. Even more alarming, it could easily be reproduced at any time and serve as proof to any statement made six months earlier and long-forgotten by everyone - except the PCW!

But don't let me create the impression that I myself became a bureaucrat. Writing is still the source of my income and even there the PCW is doing its best to pay for itself: mind you, it had probably already done that because my productivity had increased by about 100% - with an added bonus; being able to have more than one project on the go simultaneously without getting sidetracked.

Apparently there are over 150 computer magazines in Britain: in Czechoslovakia there is one, Elektronika, Of course it covers all machines, and as a result has a circulation of over 150,000. I managed to write about the success of the PCW in that too, and even quoted the overthe-counter LIK prices of the Amstrad models, something normally unheard of.

Even my wife, who's a translator, began to use the PCW and her productivity increased as well. That's when I first faced the problem of time-sharing, but after ten years of marriage, there had been worse crises to contend with than that

Improvisation

That's not to say, however, that there weren't problems. Getting into computers means learning and that means software. How do you explain what a spreadsheet or E-mail is without actually having access to them? Well, the next best thing - and I should know - is being able to read a decent magazine. And having an extensive knowledge of the only program you've got - LocoScript 2. Believe it or not. with just a little cunning it is possible to give a viewer a fairly accurate idea of what a spreadsheet is by mastering only Block and Paste facilities. After the February '88 issue, however, I was able to get one from Listings Plus - since then I've also made great use of the spell checker and mail merge programs that appeared in those pages.

E-mail proved slightly trickier to demonstrate, when we had no modern, no RS232 interface, no communications software and no connecting cables. We managed to fake a decently-shaped artefact closely resembling a modern and



▲ Checking the scrip

Czech facts

Anyone know much about Czechoslovakia? It's definitely behind the Iron Curtain, there were some troubles with it in Munich before World War II, and more recently some ficulties with the Russians and Dubcek Oxford graduates might add that Shakespeare

wrongly placed it by the sea, and beer drinkers may have heard about Pilsner without stopping to think that Pilsen is a town in Czechoslovakia, not in Germany. And, at the last count, there were at least seven PCWs in the country!

again Listings Plus came to the rescue. This time it was something like Telex Type. True enough, not exactly E-mail but even you lot over there can't always have it all, let alone a Czech television viewer. As there wouldn't be anyone else in the country with a modern to send E-mail to anyway. maybe I'm not missing that much.

There are a lot of stories behind my PCW. I could tell you about furtive border crossings in cars with back seats removed to accommodate PCWs; about the desperate search to get hold of software, and the joys of seeing a dubious copy of DR Draw; about the rumours that someone in Slovakia had the Desktop Publisher; about the black day when I somehow got hold of extra memory chips to do an upgrade through the friend of a friend, but they were the wrong type and nearly killed off my PCW...

We get very jealous seeing all those packages. We'd love to get hold of Stop Press, Hitch Hiker's Guide To The Galaxy, Head over Heels, joysticks, digitisers, databases, spreadsheets...but why? After all, it's fun to struggle with the smattering of software we have, and to be a big fish in a little pond. The PCW has been my personal revolution.

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CP/M is a distrusting operating system. Whenever you type in a command like ERA *. * it asks you to confirm with a Y or N. The trouble is that after a bit you get so used to pressing Y that one day you end up wiping clean a disc which had the only copy of last year's accounts on it.

The answer is to make that file unerasable - to set it to 'read only' status which means
you can read it and copy it but not write to the file - ie. you can't wipe over it. But SET can do much more than that.

irst insert your CP/M work disc and type PIP M:=A:SET.COM. If you get one of those helpful messages like 'file not found' or the terse 'PIP?' then try it again with your CP/M master disc. Now you've got SET in the memory you can start to tinker with your data discs. The following assumes you've used SETDEF in your PROFILE SUB file to instruct CP/M to look in the memory to find things, as well as the drive it's using; it'll do this if you're renamed the file PROFILE.ENG as PROFILE.SUB. If not you'll have to type M: SET where SET occurs

Insert the disc to be protected in the drive - type DIR if you want to know what's on it. Suppose in amonost the lunk there's a file called ACCOUNTS.87 which must not be erased under any circumstances. Just type SET ACCOUNTS, 87 (RO). This makes it safe from erasure until you make it 'read-write' again with SET ACCOUNTS. 87 [RW]. This will protect LocoScript files from erasure under CP/M. but you'll still be able to erase a so-called would-be 'read only' file in LocoScript.

Smash the system

SET can also make files into 'system files' - these are files which exist outside groups and float around in their own space. They don't show up on directories (save for a 'SYSTEM FILES EXIST' message) and won't be seen by PIP to be copied unless you end the PIP command line with [R]. The main use for this is if you're working in different user groups, a system file is always available. So making PIP a system file is a Good Thing because if you decide to go off into group 12 you can still type PIP without getting that dismissive PIP? spat back at you (which you would get normally with PIP sitting in group 0). The command to do this is SET PIP. COM[SYS]. You can combine this with the above commands as in SET PIP.COMISYS.RO1 which systemises and read-onlyises the file. To bring a file back into the corporeal world of groups type SET PIP.COM[DIR] (for 'directory'). You can make whole discs read-only by, for example, SET B: [RO] or read-write by SET A: [RW] and so

Now, you may think this is quite a lot to be able to do, but it's just peanuts compared to the rest of SET's functions.

A:ACCOUNTS.87 set to directory (DIR), Read Only (RO) accounts.87 NMTS.57 Not erased, Read Only

A Setting a file against accidental erasure

GET SET

S is for Security, E for Erase-proof, T for Time-stamping - put them all together, you get SET

A)set a: [protect=on, name=Doris] Label for drive A: A:DORIS . #>set a: [password=qoph] Label for drive A: A)set accounts.87 [protect=write, password=gerbil] A:ACCOUNTS.87 Pretection = MRITE, Password = GERBIL A)set secret.pln [protect=read, password=zho] A:SECRET .FLM Protection = READ, Password = 280

A Setting a name and password for a disc, then a password for a file

Wildly exciting

can use 'wildcards' w SET (just as you can with most CP/M utilities). An asterisk can stand for anything and a question mark for any letter, so for example 8 would make all files ending in - ACCOUNTS 87 TAXDODGE 87, SECRETS 87 etc. - read only, SET *, * FRM makes all files on the disc read write and SET TD1 makes ACCOUNTS.BAK.

ACCOUNTS.87 etc. all directory A command like SES

22 (80) protects all files ending in two letters -ACCOUNTS.87 for example but not ACCOUNTS BAK, Similarly specifying A?C?????.87 would work for ACCOLINTS 87 and ABCDEFGH.87 but not ARCDEFGH 12

A)tupe secret.pln Password: Error On A: Password Err Function = 15 File = SE The result of getting a password wrong (note it isn't typed on to the screen)

You can set passwords and generally have great fun making it impossible for anyone to access them in any way if they don't know the correct password - including yourself if you have forgotten it. See the margin note though.

CP/M allows you to specify a password for each file on a disc, without which you cannot copy it or access it at all. Well, in theory. In practice it wouldn't put off the Special Branch from finding out all your shady insider dealings in GUINNESS.87 so don't rely on it too much.

First you have to tell CP/M that you're using passwords on the disc in question with the command SET

A: [PROTECT=ON] or whatever the drive is. Now you have to decide on a password for the disc - otherwise anyone can easily turn off the file protection with the command SET A: [PROTECT=OFF]. If the password you choose is ENIGMA you type SET [PASSWORD=ENIGMA]. You can also label the disc with a name, so to call your disc 'Doris' you'd type SET [NAME=DORIS].

Other programs Note that protected files simply won't run in BASIC, New Word won't recognise them, and Protect has its own protection facilities. Mini Office won't load password protected docu so SET can be used with Mini Office files

CPM

LocoScript note

LocoSciri, par novel LocoSciri, being a non-CPM program, desen't recognise passwords set in CPM. So, if you have forgothen the password you set for a file you now can't get linto, all you have to do is run up LocoScirpt and insert your protochd dise. All the files show up in group 0 (unless they're system files unsystemise them with SET as above).

above).

Now use the copy facility
([f3]) to make a new version of
the protected file in group 0 with
a new name, then erase the old
file. When you run CP/M up
again you'll find your file
unprotected.

```
A)date
Ned 12/15/82 20:09:50
A)date set

Enter today's date (MM/DD/YY): 06/12/88
Enter the time (MH:NM:SS): 03:08:00
Press any key to set time k
A)date
Sum 06/12/88 03:08:06
```

Name: pass

Now you can go ahead and set passwords for individual files, eg. SET SECRET.PLN [PASSWORD=MAGMA] makes the password for the file SECRET.PLN 'magma'. Suppose this is a simple text file whose contents you could normally find by



listing it out on the screen, ie. by typing TYPE SECRET.FLM. if you try to do this now you'll be prompted for the password and failure to deliver means the function is aborted. This will happen when you try to copy it, type it to screen, erase it, rename it or write to it.

You can go ahead and set individual passwords for all files if you like, but it's probably easier to set all files on one disc to have the same on with SET *.* [FASSWORD-DOGMA] or whatever.

Perhaps you don't mind people seeing what's in your files, you just don't want them tampering with the contents. You can do this by typing SET_SECRET_FILM [PEROTECT—MEATE]. Similant, (PEROTECT—MEATE) requires the password for reading (fe, anything at all) while [PEROTECT—NOTE] requires to not yof or deletion and [PEROTECT—NOTE] removes the password. A new password can be set by [PERSSRORD—STEAQL and setting the new password as blank by [PERSSRORD—fyes, there's a [RETURN] straight after the equals sign] also effectively

removes it. You have to give the password before you

can enact any of the above commands, of course!

Time marches on

CPM dos has a variety of time-stamping functions. You can atamp your fire with the time they were created, or the time they were last updated (is. withen log) or team the tywere last accessed (is. written lo you read). First in addition to SET you'll need in your memory use PP as above DIR COM (ide? a dy your systems discs on an 8000) and NITDIR COM and DIATE COM (and so an 8000). Lined so you've used SETDEF as above you'll need to prefix all these with it. when you use his.

M: when you use them.

Your PCW has a clock built into it, but whenever
you lum on the PCW it thinks it is Wednesday 15th
December 1982. This has nothing to do with Creation
theory but is some important event in the CPM
calendars. So, unless you have a 'real time clock' (a
box which fits on to the back of your PCW and tells it
the real time, see Culcickes this month) you'll have to
set the time manually every at the beginning of every
session on the PCM.

On starting up, type DATE SET at the A> prompt. Give the date (day first, then month, then last two figures of the year - remember CP/M was invented in America) eg. 13/06/88 then the time. You actually press a key to set the time after you've entered it, so

give yourself a few seconds' breathing space. If it's seven minutes past three in the morning, you'd enter 03:08:00 and press any key on the stroke of eight minutes past.

Now you can display the time whenever you like by typing DATE (DATE C displays it continuously until you press a key). Switching off the PCW resets time to 1982.

So your PCW can now tell the time, almost as well as a £2 digital watch. Great. But now you can use that DATE facility for something useful — marking your files with the time you created them, or 'time stamping'.

Put in the disc with the files to be stamped and type INITDIR A: or whatever drive it is. This will after the disc to allow time stamping to occur. Confirm it with YRETURN) and don't worry if there are any files.

already on the disc, they won't be erased or anything!
You have three stamping options: creation time,
update time, and access time, and can combine some
of these. Recording update and access is the most
useful combination.

To do this type SET [UPDATE=ON, ACCESS=ON].
From now on all your files will be 'time stamped'

(obviously not retrospectively). Typing SET [CREATE=ON] would just record the creation time of each file.

Create a new file on the work disc — say just copy at and give it a new name — and do a full directory of the disc with DIR [FULL]. You'll see the times of each file listed out. It'll also tell you if any of the files are password protected, whether they're directory or system files, and whether they're read only or read-write.

Note that if you do another DIR [FULL] now, the 'access' time has changed – a directory listing counts as an 'access'.

This can be a really useful facility; you can tell which files you haven't used for a while (and therefore which ones are the most likely candidates for erasure) and can check that updates are being carried out when they should (eg. for accounts files or

databases). However you must remember to initialise your disc with INITDIR and *must* set the date and time every time you start up the PCW. You can only put 48 files on a time stamped disc (not 64 as normal). Timestamped directories can also can be an unpleasant reminder of how quickly time passes.

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LAUGHING **MATTER**

Think you could write comedy? Bill Matthews gives you some very serious advice

omedy writing is perhaps the most accessible of the writing media, and remember that it may take months to write a play, and years to write a novel, but it only takes a second to think up a joke. The joke will probably be dreadful but you can't have everything. And once you've had a line or a sketch broadcast, and not your credit at the end, you're well on the way to being as famous as me, whoever I am.

The majority of comedy writers start in radio (some, like me, stay there). The two programmes that are most accessible for those starting out are Week Ending on Radio 4 and The News Huddlines on Radio 2. Both are sketchshows, but have a portion of the programme dedicated to topical one-line lokes based on the week's news, often the sillier items - and to write these is the easiest way to get that first credit. Both have specific formats which you should adhere to when submitting material. Basically, you begin with something true (the set-up), and end with something made up (what we doyens of the comic mode term "the joke")

Here comes the best piece of advice I can give you. Listen to the programmes. Both Week Ending (deadline Thursday) and The News Huddlines (deadline Wednesday) are based around news stories of the week, and are strictly topical. When writing both lines and sketches, have in mind the style of the programme, and try to stick as closely to it as possible. An original angle or format for a sketch will give it a better chance of being broadcast, but don't try to subvert the whole style of the programme. You can only change from within

London calling

The majority of lines are sent in through the post, but most sketches that go out are by writers who come into the BBC itself, get feedback directly from the producers, and perhaps re-write their sketches before they are accepted. So if you are set on writing comedy for radio. London is the place to be. But here comes more obvious advice. Don't give up the day-job, pack your bags and head for the streets paved with gold until you have had positive encouragement from producers, and you are confident that in time you can make a success. Then again, don't expect success to be instant. Don't give up after one week, but give yourself time to get used to the feel of the programmes and to your own style.

All writers are used as freelances; signing a contract does not make you an employee. If you are serious about wanting to be funny, my advice is to join the Enterprise Allowance Scheme as a comedy writer, and set yourself up as self-employed. You will be paid £40 a week for a year, with no restrictions on your earnings.

The Light Entertainment Department (Radio) of the BBC is along one corridor in 16 Langham Street (opposite Broadcasting House) in London. The producers' doors are always open (except when they're shut), and the atmosphere is of informality, approachability and nitrogen mixed with oxygen, It may seem daunting at first, but



Loads of money

You may have gathered by now that comedy writing does not guarantee you a sea ticket on the gravy train. The levels of pay at the BBC - in both radio and TV - are a constant source of complaint among writers.

A new writer will be offered £15 a minute for material broadcast, plus 65% of the original fee if the programme is repeated within a week (as most are). Fees go up in relation to both experience and success, so that an established writer might be on a rate of anywhere between £20 and £30 a minute.

Payment for lines is £7,50 each (£12,38

ding repeat fee TV comedy on the BBC (without the repeat) is, curlously, even less well-paid for beginners. You might expect to start on £21 a minute. Once you're established in TV, however, the rewards escalate more rapidiv than In radio. ITV comedy pays much better anywhere between £50 to £100 a minute, depending on the ITV company. Question - In that case, why do I still write for the BBC? Answer - Bill who?

the natives are friendly if approached. At the end of the corridor is the Writer's Room, which is full of newspapers. ashtrays, old scripts, and forgotten hacks left over from the days of ITMA

It is in this room that the Week Ending Non-Commissioned writer's meeting takes place every Wednesday at 1pm. Absolutely anyone - except perhaps Colonel Gadaffi and Ted Rodgers - is welcome. The BBC being a rigidly hierarchical organisation, you have to start off at the bottom - with a status somewhere between the teaboy and a piece of fluff on the carpet.

Commission impossible

The difference between the commissioned and the noncommissioned writer is that the latter hands in material without being asked, whereas the former has a contract to write for the programme and gets his or her name in The Radio Times. To get that first commission is the next breakthrough for the ambitious comedy writer. But the rumour that commissioned writers also earn the privilege of sitting in their own mess is unfounded, as anyone is allowed in the Writer's Boom.

Getting a commission (this is a theory), opens the way to other work within the department. Other radio programmes aren't so easy to break into for those starting out, as they are usually fully commissioned already. But there are ways of finding out what programmes account speculative material. If you look at the credits in the Badio Times, and see the magic phrase "and others" at the end of the list of writers, it's worth sending in sketches. However, if only one or two writers are mentioned, then it's a waste of time and effort to send anything in. Another way of discovering what outlets are available is to phone or write to the producer of the particular programme (ring 01-580 4468, and ask to be but through to the producer concerned).

Situation comedies on both radio and TV are never open to outside writers, but if you have already written your own sitcom, send it in with a synopsis, and the Script Editor will decide whether to commission you, whether it needs rewriting or, to be realistic, he may send it back. It is a better idea, before committing yourself, not to write the full half an hour's script, but to send in 6-10 pages of dialogue, along with a synopsis of the idea, the plots and the characters, and he will tell you if he is interested, and whether you will be commissioned to write the whole script.

Sketches by Bozo

Sketch shows on the BBC like Alas Smith and Jones, Naked Video, Les Dennis, The Russ Abbot Show and Little and Large (well, you can't be choosy), all accept unsolicited material. On ITV shows like Saturday Gang, The Grumbleweeds, and Kate and Ted (all broadcast early evening on Saturdays) are worth trying. However, if the man in the pub thought he could write better than that lot, he was probably right - but they wouldn't want to use it, they'd prefer a recycled joke instead. Who said crime doesn't pay? If you want to know in advance what forthcoming shows invite material, write to the Script Unit of the relevant company, and they'll send you a list.

The best bet on TV for the new writer used to be Spitting Image, which invites sketches of any length, and pays well. However, the programme has become increasingly the preserve of a clique of writers. But don't be discouraged by my cynicism. If your idea is original enough, it's in their interest to use it.

The most prolific ITV company in terms of comedy output is LWT, and much of their work turns up on Channel 4. This channel is where some of the best comedy on TV is found, yet there are few chances for the unestablished writer. Who Dares Wins and Friday Night Live, for instance, are both closed shops. But if you have your own idea for a series, get in contact with Channel 4 and they will give you a list of Production Companies who may be interested in what you have to offer.

How to be extremely funny

This is less a 'How to be....' than a 'What to do ...' article about comedy writing. It's a craft that has to be learned - by making your own mistakes and realising why they are mistakes. It's a balance between competence and inspiration, between formula and originality. You can sometimes get away with format jokes (eg. Esther Rantzen has big teeth, Princess Diana is thick, Lord Hallsham is old, Fergle is fat, pot noodles aren't very nice, Oliver Reed drinks a lot. Barratts make sma houses) by fitting them into new contexts, but the best jokes are ones that add a new twist, hit an original target or are flights of the Imagination. Or anything about Gyles Brandreth. Comedy is all about recognition – now where have I heard that before?

Here are two formula Week Ending sketches, both featuring Mrs Thatcher and Douglas Hurd, and which make guite obvious points. But one of them is 'bad' and one of them (In my opinion) is 'good'. See if you can spot the difference.

FX: DOOR HURD:

You wanted to see me, Prime Minister. THATCHER: Yes Douglas Hurd, what is it?

It's about this report on page 17 of the Guardian about our policies on the inner Cities having a terrible effect on the health of the people who live there.

THATCHER: Oh so then our policles are working after all. Yes, that's right, Prime Minister. HURD:

HURD: THATCHER: HIIRD:

Prime Minister, I'm under great pressure to do something about the Moonies. The Moonles, Douglas? Why are they a problem? Well, they take complete control of people's personalities and brainwash them

Into following every command.

(Menacing) Really Douglas, I don't see what's wrong with that.

(Monotone) No Prime Minister, neither do L. THATCHER-

HIIRD.



 Bill Matthews is 27 years old and has been writing comedy since 1984. He writes for Week Ending, The News Huddlines, Peter Dickson's Nightcap, Happy Hour and a comedy spot on radio's Sport on 2, plus two sitcoms. He claims the record for the longest apprenticeship on Week Ending, writing for the programme as a noncommissioned writer for over two years before finally being commissioned.

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Using Amstrad Word Processor... Users Gd To Amst PCW 8256/8512 Step by Step Gde to Locoscript

or the first few years of its existence. Locomotive Software was just another name in the Yellow Pages a backroom company known for writing obscure specialist business programs. Now there can be few PCW owners in the world (and there are over a million PCWs around somewhere) to whom the name isn't familiar.

After writing Mallard BASIC, which arose from work on file handling and indexing they were doing on an accounts program, Locomotive were approached by Amstrad and asked to supply the software for their new 'PCWs'. They wanted a word processor which would be simple enough to follow for first-time computer users yet powerful enough for business and heavy-duty home use. After nine months' gestation LocoScript was born.

It was made as foolproof as possible - it automatically formatted everything as you went along, for example, and whatever sequence of commands you typed in, however convoluted or 'illogical', it would give the expected results: the worst that could happen would be a helpful error message. For beginners, the comprehensive system of menus was developed, but as users got more experienced they could make use of the 'set' keys with the letters appearing in capitals in the menus: quicker than selection 'UnderLine' from the menu was the typing of [+]UL for example. As well as all this, there was LocoMail, a mail merge program, and LocoSpell, the spell checker and word counter

Two time

The success of LocoScript encouraged the company to hit the commercial market with LocoScript 2. This answered the major criticism of version 1 - its notorious sloth - by including a 'jump to page' command (if you wanted to go to the end of a longish document from the beginning in Loco 1. you had to spend several minutes watching the entire thing wind through to the end) and added a staggering range of new characters plus the ability to use other printers without

Since then has come Locochar, which allows the user to redesign up to sixteen characters and output them on screen and printer in all the high and draft styles available; and now come the extra printer sets and character redefiner.

The ability to use any printer has been a major feature of LocoScript 2. It will work directly with over 250 printers. thanks to the huge list of available 'printer drivers' - files which tell the printer how to interpret LocoScript documents - and the list is growing every week. If a printer doesn't have a printer driver available. Locomotive will advise on which is the nearest one to use; if the printer might be one a few people would use, they'll even write you a special printer driver for £15

Good in anybody's language

LocoScript 2 is probably the most versatile word processor in terms of languages, characters, accents and printers supported that has ever been sold. It currently handles modern Greek, Cyrillic and mathematical symbols with ease

Shredding of the five thousand ive wanted to get it

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9512 note d from all this. The

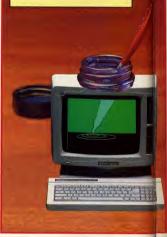
Software, who had written LocoScript 1 2's success, they're developing it yet further. The two very latest additions are a set of extra printer styles and a keyboard redesigner. Where is it all





WRITING OWN

Rob Ainsley goes to Locomotive Software in Dorking for an exclusive look at the latest developments on LocoScript





and can cope with every European language from Greenlandish to Russian, Even then, it seems, some people are never satisfied. "Our latest headache is breathing marks in ancient Greek," says marketing manager Howard Fisher. "We've had a lot of letters about it. The problem is that to cope with them properly you need multiple accents on one character, which we can't do just vet, but we're working on it." The designs of the current Greek and Cyrillic character sets were changed twice in response to feedback from scholars.

Anyone thinking that foreign languages in word processing are an amusing but trivial sideline should remember how spoilt the American English speaking world is. Word processors for the individual or small business in other 'minority' languages (Russian, say, or Hindi, with around 250 million speakers each) just don't exist and the only option for those working in such languages or in those countries is to buy a 'foreign' word processor and do their best to adapt it if necessary. The market in foreign countries is certainly there and Locomotive are doing their best to exploit it. Closer to home, there's a new Welsh LocoScript, which has attracted a lot of attention from the Welsh media

So what next? Is LocoScript going further East? Was that copy of 'Alphabets of the World' really someone's lunch break reading? Howard wouldn't be drawn, noting only that there's a lot of programmers in here, and they're all working on something." Maybe it was just a trick of the light, but it seemed that some of the writing on one of the screens was going from right to left...

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There are, however some bad reasons. To cope with a full character set in screen, draft and NLO styles requires a



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A How it was done - the designs for a Connemiate to and a Script B

number redefinable under Locochar, the program which lets you design your own characters. Larger character sets are run through special compression programs which rewrite the set in a way more economical on space. So, if you wanted to design your own set, you'd need a very large computer plus the compression software to shoe-horn the set onto a three-inch disc.

Demand for variety of printer output is clearly there and so Locomotive decided to make available this extra set of styles. Designers were brought in, and using a program rather similar to Locochar plus those compression routines. they have been fitting extra styles onto the sixteen dot grid your printer limits you to. All the characters and accents - even the Greek and Cyrillic ones - are being represented in each font. As models for many of those characters are not available (what should an art deco Cyrillic character look like? Or a copperplate style Greek alphabet? Or a calligraphic circumflex?) language specialists have had to be consulted.

lot of space - that's why sixteen characters is the maximum

77% isn't bad At time of going to press two of the extra sets were unavailable. These will be 'Locomotive' and anot sans serif set.

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reeps in this petty pace from a aye there's the rub. Now is the ld smell as sweet. To be or not

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Easy does it

Using the new styles is very simple. So long as the file containing the style you want is in group 0 of the M drive, it'll be available for use They have names like MATRIX #RO. and any of

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automatically be copied to drive M for you; any others can be copied using [f3]. You can have up to ten available at any time, which should be enough for most people.

You can check on the sets available by pressing [16] in the disc manager and selecting 'Character sets.' To set up a document to be printed out in Roman, say, you would press [11] for Document Setup while editing and take [16] 'Pinting,' The character set option lets you choose a set for the document, and when you come to print it out, you 'change to skel intended for document' when promoted.

Homan set as standard and while the two 'handwritten' styles won't fool anyone, they still look pretty good. Of course they have to be used in proportional spacing or the result is very odd looking.

The new sets have been very thoughtfully put together and are an easy way to put life and variety into all PCW work from academic papers to news sheets to letters.

LOCOKEY

£14.95 ● Locomotive (0306 740606) ● All PCWs

The logical successor of Locochar, the program which lets you redesign sixteen characters in LocoScript to your own specification, is Locokey.

For anyone who wondered why the opening screen in LoxoScript 2 had in explicably gained a 'GB keyboard' as message when they upgraded, all can be revealed. This is keyboard usinsier which allows you to make any key produce any letter, a little like SETKEYS in CPM. So all you borak fars and French AZERTY standard devidees can reconfigure your keyboards without having to hack into the deaths of the LoxoScript system files with SID.

However, the program also lets you produce those Loodvar-redefined characters with non key, so you can make [EXTRAIC produce your church symbol, or \$4×> your lour Chieses characters for Shark Fin Foo Vung, or (£1) plus the numbers one to ten your border characters. Users of excitc foreign languages like Veleh can assign any combination of accent and letter to a key – so w-circumflex could be produced by the [key for example.

Shifty characters

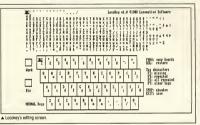
The program itself is simple to use. Wo have a plan of the keyboard at the bottom of the screen and all the available characters at the top—you can select a Locochar-redefined self iyou life. You have a Work box containing an active character with you can pull from either keyboard or character set and assign to any key in any shifted (SHIFT, ALT, EXTRA, SHIFT-ALT) or super-shifted state (the Greek, Cyrillic and Symbol super shifts). The (COPY), [CUT] and [PASTE] keys of the jobs of swopping and moving characters. Special functions let you switch entire sets automatically (to make the Greek characters standard and the English set go under super shift, for example). Into the Bill' hox goes the last discarded character, which can be pulled out in an emergency, till even tell you if you've put any characters in twice or missed them out.

Font memories

The idea of extra fonts for LocoScriptism's new, of course. SuperType, from Digita (22.49), gives you eight extra character sets usable in either OPM or LocoScript (2). Some of the fonts are similar to the new LocoScript ones (the four sent similar business' fonts are life. Loco's sans serifie, the vauderville filte Loco's Deco) and some aren't (you also have outline, stendil and the usual olde Englishe eyles).

All the fonts work in italic, draft, NLQ, bold etc., but of course they aren't supported across the range of all LocoScript characters or accents, as are Locomotive's fonts. They have to be installed (just once) on your LocoScript disc which takes a few minutes and work in a slightly different way with the result that you can only really have four available at any one time.

It's a perfectly good package and if you already have SuperType you won't need the Locomotive forths unless the different styles appeal to you – which they may well do. If you won't with a CPM word processor such as Protext of course SuperType is what you want. On the other hand Locomotive's ints are definitely the better buy for the LocoScriotes.



When finished, the new 'keyboard set' is saved under an appropriate name and the file put on a new start-of-day disc in place of the standard KEYBOARD.JOY (so your own 30-character message will appear in place of that 'GB keyboard' message). All you have to do now is put in the disc and switch on; the keyboard will produce the characters you assigned to it in Locokey without you having to mess around changing over character sets or setting up documents to expect this or that.

Locokey is a well-written program, quick and easy to use, it should satisfy all the requirements of those who like tinkering with the LocoScript setup and will be useful to anyone who needs furny characters or Locochar symbols in their everyday work. It's not the sort of thing you'd use more than a couple of times so it would be an expensive toy. It's product with a particular purpose which will only be valuable to a few per cent of the PCW population — but remember that figure of one million PCWs round the world.

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He was no relation to the composer of the famous Symphony No. 8 'The Hovis'.

And then?

How you change the letters on the keytops once you've redesigned your layout is another matter. Enthusiasts have suggested Tippex or Liquid Papering over the tops followed by permanent merkers and clear nail

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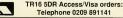
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SPREAD YOUR SHEETS AND FLY

Alec Rae gives a few more hints on how to tackle your business accounts with a spreadsheet

In business time is money. So while you may agree that it would be nice to write your own accounts package on a spreadsheet, you may feel it is too time consuming.

There will be a bit of time involved in setting up your spreadsheets. But once this is done, by using a template-like system of matrices (that's the plural of matrix, not something you sleep on) you can re-use this initial work over and over again.

n the Cracker Turbo package used last month to set up the cashflow sheet, one really useful feature is the "Macro". This works a bit like a submit file in CPM. You write a load of commands in a cell complete will RETURNIS, and then simply by typing the cell number at the correct moment all the commands are carried out. If you have a list of commands too long for one cell just make the last command call on a macro in another cell.

You can create loops by calling on the number of a previous cell in the sequence or even the cell you are working in. This means the commands are carried out continuously until you stop it or until it comes up with an error (like reaching the end of spreadsheet).

So, for instance, say you decide to write the heading

Format matters

Although you can write anything you want on a spreadsheet you still have to tell the program in advance what sort of thing you are going to write.

For instance if you want to write the words 'Account No' at the top of a column you will have to tell the spreadsheet you are going to put text in that box. The cell below will probably be a whole number (the account number) so you have to tell the computer to expect a whole number (though 'Integer' sounds much more complicated so is

preferred) while in the next column you might want the figures to go in a financial format (ie. with two decimal points).

This is necessary so that you won't start trying to add the words 'L. Bloom and Daughters' to 2250 and subtract the date. Ensuring you have the entires set to the right format is one of the most line-consuming and frustraling aspects of spreadsheeting. This is a where clever use of macros to run through your lay-out changing formats to the suitable setting is feast.

'Amount' at the top of every third column. Go to a blank part of the sheet and pick a cell = 3ay A10. Type in the commands to change the format in a cell to text (set right usually at the top of a column of igures) just in the same order as you would normally with a 8 instead of [RETURN]. (FTRE8) and end this with a "and the number of the cell below, followed by a § (+3.116) calling into play the commands that are islated in that cell.

Move down and enter the details you would normally use to type in the word 'Amount' and then move the cursor along three columns (Amount @RRB). End this cell by calling the first cell (*A10) and the process starts again until you reach the end of the line.

Let's get started

Macros Come into their own when you are wanting to set up a certain layout. Say you simply want a sheet to keep track of the orders you took in a week. You would want perhaps a text column for the details, a finance format column for the amount and integer column for the account number.

With Cracker you always start with a totally blank screen so you have to create a couple of columns to work in. Set up a couple of columns in heading format about 20 characters wide to accommodate long macros. If the formula runs over the space available it will run into the next cell in heading format. In normal text format it will be cut off at the space available so it would seem as if you had lost the end of your formula.

In Crackerspeak the commands to do this are 12020— English translation (Insert (2) (C)olumns, width (20) characters – press [RETURN] twice and two columns one line deep will appear. Dornt worry too much about having to remember these letters, as you are prompted as you go along. After entering 1 Cracker will show the word 'Insert' and then give you a choice of options -0-9, Column'. Here you can enter C for one column or a figure for a number of columns. Each stage is confirmed as you go along. Now insert, say, 25 lines, a reasonable screenful. You can add more later

Formula writing

Then fill in the top formula as shown in fig 1. It may look at first like a jumble of letters but if you break it down you can see what's happening. The first line says (l)nsert one (C)olumn (12) characters wide (time @ is (RETURNI)), with the format (T) exit justified to the (R)ight (all the text unsu p to the right hand side). If you want a different width or format just run through the process in normal command mode to see what commands are required and then type those letters in the coll set.

The last figure *A2 calls the formula in A2 into play. This simply enters the words 'Details' at the top of the column. The full stop is just the command you would normally use for



Adapt the sheet to suit. Jump to the correct account using (J)ump



entering text in a cell

Again this ends by calling cell A3 which moves one space to the right and inserts the next column - this time a normal finance format column 10 characters wide

As you are wanting to enter the word 'Amount' in a finance tormat column you would normally have to change it So the next cell (A4) does this, FTR means the (F)ormat should be (T)ext (R)ight justified. As this command puts you straight into the position where you would enter text you do not need the full stop you normally need to enter text in a cell. Again A5 inserts a small three character wide integer column and A6 adds the words 'No' for the account number there. This is only a suggestion of course. Choose the number, width and tormat of your columns to suit yourself.

Loop aper

At the end of the macro in A6 you will notice "A1". This calls the first cell and starts the process all over again. As you will probably want this sheet set up for five or seven days you want this series of columns set up across the page. There are two ways of doing this. Put a @ at the end and the process will go on until you stop it; leave it off and the process will pause at the end of each cycle to wait for you to press [RETURN]. Do this the required number of times and you now you have the right size of spreadsheet.

You probably won't want to have this right at the top of the screen (to allow for a heading and other details) so go down three cells move into the second column and type in *A1. The Macro then starts its amazing progress across the screen, adding columns as it goes.

You will also have two heading columns at either end of the sheet which you can use for notes to help you find your way about the sheet (see fig.2) by simply using BC (or blank column) the command to clear the entries. Or else simply remove the whole column with 70

Type in Monday, Tuesday and so on above each 'Details' column and save this layout under a name like Matrix so you can just call this up and have a blank sheet to start each week

Adapt this layout as you want. You could have individual accounts in various places on the same sheet and then just copy all the relevant details to the correct account - see fig.3



Day by Day

When you call up your blank sheet on a Monday, wouldn't it be great if you could just enter the date in one column and have Cracker work out the date for all the other

day's in the week. Well, you can. Cracker has a wide range of teatures dealing with time - some of which are admittedly a little obscure in practice. But the one that is of most use at this moment is DATEAFTER. In Cracker the date should be entered in a certain form. For instance 106.1988 Is the 1st of June and 3112.1988 is the 31st December. It seems obscure but you soon get the hang of It. Ot course to put this In a cell you have to set the tormat to four points decimal, F4D [RETURN].

So If you put the date in cell C3 (above the tirst column ot 'amounts') and then put DATEAFTER (C3.1) in F3 (the next 2 amounts column) the date tor the next day appears in this cell.

To help you do this you can make another macro (see the lower macro in fig 1). Place the cursor in the cell F3 and start it running. This will put the same formula every three columns to the end. You then have to run through it manually changing the last digit in brackets). For instance for Wednesday you would have DATEAFTER (C3, 2) -two days after Monday's

Save this on your Matrix and when you start the week you just put the date in the right form in cell C3 (for example 3005,1988) and the whole week will be correctly dated. Remember to change C3 to be tour points decimal format or you could have difficulty reading the date of course.

Turbo Powered?

There have been arguments about how much quicker Cracker Turbo Is than the old Cracker 2. Certainly, everything being equal Turbo is taster for most functions. Obviously the lager the spreadsheet you are working on the more time that is saved.

For Instance loading a relatively small weekly report takes 13 seconds on Cracker 2 and 11 on Turbo. Recalculating the sheet took

10 seconds in Cracker 2 and 9 in Turbo. In the complicated task of setting up the Matrix using macros you could save over a minute: Cracker 2 clocked in at 3 minutes 38 seconds. Turbo at 2 minutes 25 seconds

On the other hand there were times when Turbo actually took longer. To draw a simple bar chart Cracker 2 took 1 minute 16 and Turbo took 1 minute 20 seconds

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No matter how nicely your word processor prints out your words, there will come a time when you'll want to say something in letters 10 feet high (well 10 inches high anyway). Recently two additions have been added to your choice in this line - a new program, Postafont, and a new

version of an old favourite Signwriter. First it must be said that neither program is totally 'userfriendly'. If you have CP/M phobia and want something that will gently lead you through the process of creating and printing your sign, you might be better off sticking to

something like Tas-Sign.

And secondly you will have to accept that you will not be doing anything in a hurry (and that includes Tas-Sign). It seems that printing posters is always a long drawn-out process. However both programs seem to tackle different ends of the market quite successfully.

Cheap and cheerful

Postafont comes from the Advantage User Group for only £9.95 with a full manual and, as such, you can't really complain if it doesn't make life as easy as a slick program costing three times as much.

Initially, perhaps, it's easy to get bogged down in a rather tortuous method of working, but it's really simple once you get the hang of things. The major

problem is that the commands to print the poster are contained in a text file you have to create yourself - no menus to gently lead you through. If you don't have a CP/M word processor (like Protext or

NewWord) this means grappling with RPED the PCW's text editor. Not impossible but not exactly fun.

But if you make a mistake you have to go back to RPED to make changes. On the other

Printing hand it is easy to ring the changes with five fonts which can give solid or hollow characters in one of

THIS IS THE

Animal note the choice of ar

42 8000 PLUS



... adjusts the shape of the lemur





Another time-consuming leature of Signwriter is running Fontcaic, a program which produces a couple of files in M drive for the particular font to run from. You need these files to use Signin (the program to produce signs) or Signout (to quickly print out a sign from a file you have already created) but, once run, you can save these files to disc for fonts you will be using regularly. These then have to be PiPped into M drive when you start again

One possibility, especially with complicated forts like locariont, where you probably only want one or two signs, is to put the fort file into a word processor, cut out all the stuff you don't want and save as an ASCII file before you run Fontcalc. This also saves some problems with loading that can be experienced with a complex fort.

That'll fit!

One major advantage of Signwriter is the way it checks out that your sign will fit the space available as you go along. As you pick the size for each line it will tell you if you have sufficient space immediately.

The Advantage program on the other hand has no checking device (except calling it up on screen first) so you could discover that the line is too big only when you start printing out – a very frustrating experience.

There is an obvious difference in the quality of the finished product – as would be expected. Signwriter does produce the highest quality of all the signwriting programs, although it obviously does take a time to do this.

Verdict

Postafont – Ideal for a confident PCW user who occasionally produces a poster. The program will produce virtually anything you want and at the price you can't complain about.

Signwriter – For the user who knows exactly what he wants and won't be content with anything less. It is the only program that gives the flexibility and range of features needed.

Power vs. friendliness

Signwriter is not too accessible simply because it tries to do so much. It is really written for machines with a bit more computing power than the PCW and sometimes this has meant a compromise between user friendliness and power—with the finer points of user friendliness usually losing out.

There are a number of programs on the disc and it is not always obvious at first what they are all for. Reading the manual does give you a clear idea of what is required but a simplified flow-chart style set of instructions would have been helpful.

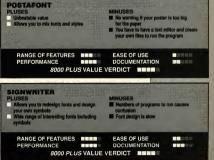
Despite seeming limitations (for instance it can only handle one font at a time), Signwriter does offer the widest range of features of any of the poster printing programs. There are 20 extra fonts available including some quite imaginative ones.

Perhaps most exciting is the 'lconfont' – a series of symbols with everything from a sign for a toilet door to the Taoist Yin-Yang sign – the only poster program that gives you the ability to do this.

DIY symbols

This can be taken further using Signwrifer's design feature with allows you to modify the letters in a tort, write your own fort or even create your own symbol – say a company logo. This is admittedly about the slowest exercise possible on a PCW. The screen display is painfully slow but it is the only program of its type to do this so you really just have to like with it.







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ORGANISE YOURSELF



Amstrad owners are an upwardly mobile lot so it's no surprise that the personal organiser boom should make its way onto the old PCW. In conjunction with Kempston Data, 8000 Plus is giving away five prizes that should help all you yupples, dinkies, woopies, yummies and noddies.

First prize is a Kempston mouse and interface (compatible with Stop Preas and the Desktop Publisher) plus Dealafax, normally (779.5. This program does all the functions you'd expect from your personal organiser - keeps a diary, names and addresses, notes and so on, and prints them out for you on special personal organiser sized paper, which is supplied. The two second prizes are Daatafax plus a vinyl binder, subject tabs and stationery (usual price 249.95), and the Daatafax software plus stationery (usual price 249.95), and the Daatafax software plus stationery (usual price 249.95), and the Daatafax software plus stationery (usually \$1.95.95).

Your mission

Here's what you have to do. Below are tive 6000 Plus readers, lettered A to E, and five categories – yupple, clinkle and so ort – tumbered 1 to 5. All you have to do have your skill make you skill have you skill have you skill and judgement to hatch the character with the category for example, If you think that Piers Toulkes-Coarrington is a clinkle, write "B -2" and so on. Write your answers on a postcard or on the back of an early sealed envelope and send your entries to. Organises Competition, 5000 Plus, 4. Ouen St. Bath BA1 TELIto arrive by 6 July. Usual rivies apply.

Charlotte Malakoff
Works for a recruitment agency
in Covent Garden. Lives with an
advertising salesman in a flat in
Hampstead.

Piers ffoulkes-Ccarrington Works for a Securities house in the City. Runs a Porsche. Has three CD players. Holidays in Thailand and Macchu Picchu.

Tamara Ward-Patterson
Works as a Production Assistant
for a TV company. Organises political

rallies in her spare time and runs an underground magazine.

D Eric Lombard
Owns four publishing
companies. Runs a BMW, registration
number EL 1. Spends six months of the
year on vacation playing golf.

Fred Arkwright
A bottle packer from Goole.
Married. Four children. Has a 1978
Escort with no tax. Holidays in
Bridlington.

Yuppie (young upwardly-mobile person)

Woopie (well off older person)

Dinkie (double income, no kids)

Yummie (young upwardly-mobile Marxist)

Minkie (measly income numerous kids)

LET COMPUTER TAIK

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All PCWs

here have always been ways of transferring information between PCW and PC, usually involving long and tortuous file transfers through a cable. What Timatic offer is a method of making the transfer to the other computer's disc format almost instantaneous.

It is achieved by fitting an external drive to your computer; either a 51/4 inch drive for the PCW or a three inch drive for the PC. This in effect produces a hybrid – neither fish not foul.

You can use the drive as a normal B-drive allowing you to save data to disc and even run programs. But with the correct software you can alter the format of the disc and save files that can then be read on the other machine.

This is particularly useful in an office environment where both PCs and PCWs are in use. Often the two types of machine can use the same programs: Protext, Wordstar, ScratchPad, Cracker or SuperCalc. As these programs usually store their data in the same way, that means that you can work on one machine, save the information on the external drive in the other machine's format, and then read the data files in the other machine, complete with layout and escape codes.

The simple answer

The 5% inch external is obviously the simplest answer for the dedicated PCW user. This fire relatively easily on to the PCW (about the same level of difficulty as a normal second drive upgrade anyway). There is a switch on the back to change between 40 and 80 tracks (although in practice you mill probably only need 40). The drive comes with software to allow you to format 5% inch discs in MS-DOS format. If you eventually succumb and change to a PC force that we in 8000 Plus don't say 'upgrade to a PCD' you can even add it as a second drive to a single drive PC.

However as there seems to be a fixation with PCs nowadays, the chances are that an office manager may prefer to put an external three inch drive on a PC. Admittedly this does give a bit more flexibility—the PC can do one or two more things than the PCW.

By using a combination of software, you can read threeinch discs and even run some CP/M programs on the PC –

PC

No article on transferring information between PCW and PC would be complete without tackling the question of transferring data between computers along a cable. So here goes with one method that should work easily with files of up 64k.

Naturally I you are having to transfer information between the two a lot, an external drive would be more successful. But If not you can get away with investing in the cost of a length of 8 core cable, two female plugs, an PCW R5232 interface and a serial interface card on the PC (check in case the PC has this as standard). The R5232 is the box you stick on the expansion port on the back of your PCW.

to hook up to a printer or a modern. Well worth an investment of about £50.

If you're not technically-minded, you could buy a 'null modem lead' – a lead that has the wires crossed so that the input at one end is the output at the other. Don't by to use a printer lead as this certainly wouldn't work. Also make sure that you buy a lead with female plugs at either end. The serial lead ends in a sort of Dshaped arrangement with 25 connectors. The 'female' plug has 25 holes while the 'male' has

Then it is simply a matter of hooking up the two machines: fitting one end to the upper connector on the RS232 and sticking the other

and in the ser

end in the connector on the right hand side of the base of the PC.

Getting it together

The first thing you have to do is set the PCW and the PC bit has me setting for transfer. On the PCW you need the utility SETSIO.COM. You find it on you CPM utility SETSIO. COM the PCW you find it on you CPM utility SETSIO. 2000 H. OTF: or as we say in English - Yes the RS232 to Transfer data at a rate of 120 characters per second (the method of checking between computers what is method of checking between computers what is.

Loco motioniess

Unidos won't work with .ocoScript, of course, be toesn't run under CP/M.

LK UNTO COMPUTER

Alec Rae shows you how to make them rap

well certainly more successfully than you could run a MS-DOS program on a PCW.

Pick a format

One piece of software that you will need is Uniform PC, a program that allows you to configure a PC drive in any of 260 different formats. This obviously gives you a lot of flexibility and the most obvious problem is ploughing your way through the pages of choices looking for what you want. As well as allowing PCWs to talk to PCs, it would mean that you could perhaps read files off discs for machines with famous old names like Kaypro, Televideo, Zenith or Osborne

Uniform, in effect, sets the right format for any of your drives (for instance if you have other formats of 51/2 inch discs) although its most obvious use is to format your external drive. You can get either the equivalent of an 8000 series A drive (173k capacity) or a B drive (the 9512 A drive - 706k). As is the case with the PCW, with the 706k drive you can read both single and double-sided discs but it can't write to double-sided discs.

On the other hand, it is not quite as easy as in the PCW because you have to reset the format using Uniform every time you change between the two types of disc. However the greater flexibility probably makes the 706k drive worth the extra £50. This normally costs nearly £70, but if you are buying an external drive you get it for only £50.

The CP/M PC

The last piece in the iig-saw is Unidos, a program that impersonates, or 'emulates' the CP/M operating system on the PC. Although this sounds a good idea it needs a careful look before you invest nearly £170 in it. You have to fit a Z80 card in the PC - not really a taxing task. But you do face one or two problems when you're setting up your PC.

Unidos gives you a wide choice of keyboards to choose from (21 to be exact) but the documentation is not over helpful when it comes to choosing the right one for you. For instance the one suitable for programs written for the PCW is option number 7 - Heath/Zenith - a fact not at all obvious from the documentation. This is because the software was written in America where they have hardly heard of Amstrads, and Timatic are now trying to get menus changed to reflect the different priorities.

Unidos is an ideal tool for people with software for old CP/M machines. The CP/M used is the 2.2 suitable for many programs but may not be able to handle many of the modern programs being written for the PCW nowadays. It would be well worthwhile checking in advance whether the CP/M software you have in mind will run on Unidos.

One major problem is the screen size. For instance the PCW screen size is 32x90 while the PC screen is only 24x80. Unless the CP/M program can be configured to handle the smaller screen size the display can be hopelessly messed up. Of course Amstrad CPC 6128 has the same screen size as the PC. Many CP/M programs are set up both for the 6128 and the PCW so you can be pretty sure these will not have screen display problems.

However most people interested in Unidos will probably have experience from the early days of personal computers and therefore will be well-equipped to tackle such problems. Unless you have a lot of old software, there are few CP/M programs that cannot be found in a more suitable form for the PC. These will certainly react more quickly and with fewer problems than the relatively sluggish CP/M emulations.

8 inch remix

Although this article is mair aimed at transfer between PCWs and PCs, there obvi are computers using other sit discs. For instance 31/2 inch cintosh, the ST and the Amiga) and to cater for these owners, Timatic also offer a 31/2-inch external disc drive. There is even an eight-inch drive for anyone who still uses eight-inch

PPC plod

Unfortunately there's no easy way of hooking up your PPC and your PCW, short of buying an external 31/z inch drive and using cessing look at a ge Computers Z88. which can talk to your PCW as described in last October's 8000

PHISES

- A quick and sensible method of transferring information between
- orm provides a vast range of for that should cater for all nee

- MINUSES

 Unidos cannot handle many more recent programs and faces problems with screen
- Unless you had a large library of old CP/M ograms it would be cheaper and more insible to buy a sultable PC program an try to use s CP/M package on the PC.

RANGE OF FEATURES PERFOFMACE

EASE OF USE DOCUMENTATION 8000 PLUS VALUE VERDICT BEE

the same setting so load MSDOS and then type MODE COM1:1200,,8.

Although it is possible to set the baud rate higher, 1200 is high enough a rate to ensure no mistakes

You also need to have the utility PIP.COM on the M drive of the PCW. Again with the correct CP/M utility disc in the drive, type PIP M:=A:PIP.COM and thereafter you can use PIP at any time by just typing M:PIP.

From the PC

Say you want to transfer from the PC to the PCW: you obviously need the disc with the file to be transferred in the PC drive, and a formatted disc with enough space on it in the

PCW Let's assume the filename is BORING, TXT although it can be anything you

ON THE PCW

Type M:PIP BORING.TXT=AUX:[E] [RETURN] or "Take any information that comes through the RS232 and save it in a file called BORING.TXT. And by the way type the whole thing up on the screen so I can see what's

happening". ON THE PC

Type COPY BORING.TXT AUX/A [RETURN] or "Take the file BORING.TXT and bung it through the serial port."

Once the file has been transferred the PCW will save it on disc.

From the PCW

Again put the disc with the file in A drive and the blank disc in the PC.

Type COPY AUX BORING.TXT [RETURN] Or

"Be ready for some interesting news through your serial port. Be sure to save all information to file."

ON THE PCW

Type M:PIP AUX:=BORING.TXT,EOF:[E]

[RETURN] or "Send the file through the RS232 until the end of the file and then stop. And print it up on the screen again so I can see what's happening."

Where can you go wrong?

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s with many aspects of life. Hollywood and the film industry is a fair barometer of progress. If you look at any film made before the mid-70s, whenever a mmouter was mentioned the camera would cut to a room full of white coats, flashing multicoloured lights and clacking printers - The Ipcress File and its sequels being prime examples. By the turn of the decade things had changed. Films like War Games showed the image of a computer as a fresh-faced teenager hunched over a desk with a green screened machine, threatening global security by cracking NATO's inexplicably trivial computer security system. What

Well, microprocessors happened. By the middle of the 1970s engineers had discovered how to put many thousands of transistors onto a single piece of Silicon, effectively manufacturing a computer on a chip. Because the material costs for these microprocessors were so low. private individuals could afford to buy them. Instead of a computer costing £100,000 minimum, for £10 you could buy the heart of the computer, and scratch around to find some memory chips, a keyboard and a modulator to send the output to a domestic TV. Of course, you needed considerable technical skill to make a useful computer given only the basic microprocessor chip, but the active band of home electronics enthusiasts gladly provided that.

Clive to the rescue

The story of the development of home computers, at least in the UK, begins with a familiar name - Clive Sinclair. In 1977 Uncle Clive was trading under the name of Science of Cambridge, since his previous company, Sinclair Radionics, had had a mishap with a cash flow situation. He was already famous for producing the world's first digital wristwatch (the 'Black Watch' - to save on battery wear the display was blank and you had to press a button to see the time), and his first true foray into the computer field was the Science of Cambridge MK14

Those of you who know anything about machine code will know that everything is done in hexadecimal numbers a typical program reads D3 FF 5A C3 and so on. The keyboard on the MK14 only had 16 keys, one for each hex

SMAL **TALK**

40 years is a long time in computing - Ben Taylor rounds off the story of computers with a look at the microcomputer revolution

capable of showing 8 characters at a time. Unless you paid extra you couldn't even save programs you had written, they had to be retyped everytime you turned the machine on. And it sold in thousands

The MK14 was a typical British computer. It was weird and wonderful and designed for the hacker to get his teeth into, but of no real use except as a hobby. Another British computer, the Nascom 1, continued this fine tradition with a

Hubble, bubble

useless.

nory chips were hideously expensive in the 1970s, which is why most computers came with 4k or 8k of RAM at the most. There was a curious interlude in about 1979 when a new storage medium called 'Bubble memories' arrived to solve everyone's

Ordinary memory chips work by turning transistors on a silicon chip on and off, and reading their state to work out what data is stored. Bubble memories were chunks of magnetic material with millions of tiny

For a few hundred pounds you could buy a half-megabyte Bubble memory chip, which sounded like superb value when 32k of ordinary RAM cost about the same. However, In the end Bubble memories died because they were agonisingly slow; it took several milliseconds to retrieve each byte of data from store, and so they ran no faster than a modern floppy disc. For fast microprocessors, Bubble memories were



▲ The Commodore PET and the Apple II. In the UK the PET dominated, but in America the colour screen and disc drives of the Apple appealed to businesses more

digit, so there was none of this fancy programming in BASIC rubbish. The MK14 was firmly a hobbyists' tool for people who wanted to learn to program a microprocessor; you couldn't do anything with it - you certainly couldn't do any word processing as there was no typewriter keyboard. For a basic £46.55 (including 8% VAT - remember 8% VAT?) the MK14 had 256 bytes of RAM and a calculator-type display

interface for saving programs on. The basic memory supplied was a massive 2k. but it was still a machine code tool, and did not at first have any BASIC language for programming.

Transatlantic invasion

Many people have praised Alan Sugar for pioneering the one-plug computer concept, meaning that Amstrad machines tend to have monitor, processor and cassette/disc powered from the same lead, so making the package clean and appealing to the ordinary businessman.

In fact, the most significant computer of the 70s had

A block off the old chip

1978, was built around a icroprocessor called the Z80. This is the very same chip which Amstrad still use ten years later for their CPC and PCW computers. No-one calls Alan Sugar technically daring and gets away with it.

8000 PLUS 49

HISTORY

Moot point

Normally a collection of several integrated circuits is known as an 'array'. However, when talking about a network of interconnected transputers, the streetwise engineer calls it a 'farm'.

The mighty

When you look back over the British have computer revolution, one name cops upover and over again – Otive Sinder Jris Mick (2000 2018), Spectrum and CL all broke new ground in deeps and price, and this Spectrum is still the bestselling gainess compute today, in 1986, after the fallure of his business compute, the OL, and the inflamous CS electric car. Amstrad bought Stook's sentire product range and trade name for a mere SS million. exactly this design philosophy. This was the Commodore PET (Personal Electronia Transactor' – you can tell it's American), which had a cassette recorder, typewriter keyboard and 40 column by 25 row proper green video monitor, all housed in a sturdy metal case for real office use. Prices heran at about \$500 with 8 kp or FAM.

In the business sector, the PET, and its other American rival, the Apple II, dominated the late Seventies scene. The need for fast mass storage scon meant that all computers had floopy discs, and for a brief while from 1979 to 1981 the floppy disk-based CPM reigned supreme as the industry standard computer system, on such memorable machines as the Kaypro. However, in 1981 IBM decided to enter the personal computer market with its CP, and that was really that as far as business computing went. They instantly captured the major part of the business sector, and almost all commercial packages today run under the rapidity ageing 1981 IBM standard.

The face of the future?

After all the long histories of American inventions, it's nice to finish on a British note – the story of the transputer. By 1981 microprocessor design was so complex that it was becoming increasingly difficult to fit all the circuits



The CP/M story

Even the most ardent LocoScript fans can't have failed to notice that the PCW runs an operating system tor its business software called CPIM. This is by no means an Amstrad invention, and the roots of CPIM stretch back to 1972.

In 1972 three things happened. First, the American disk manufacturer discovered how to make portable floppy disk drives, whereas before mass disk storage had to be done an large expensive hard disks. Second, an American student called Gary Kildall acquired a manual for the Intel 4004 microprocessor, one of the earliest ever models. And thirdity, Richard M. Nixon resigned as U.S. President.

In 1972, Kildall managed to get a floppy disk drive to work with his homebrew microcomputer, and began trying to work out town to store and retrieve data files. By this time he was working with Intel's 5000 microprocessor, and Kildall chose the rather boring name for his system of Combring Program for Microcomputers', or CPM for short.



His list attempts to market CPM to the nascent American computer industry weren't that successful, its first commercial use was nascent American computer industry weren't that successful, its first commercial use was calculate astrological charts from any person's birthdest chowever, Kildeal soon took hep turne, gave up his fall-lime pib and bunded "inargealized Opular Research Inc." to market CPM. (The "Intergralactic" was registed opposed and heaving quite the dight image! To help sed CPM Kildeal gave every a test utilities such as allie copter calcular grane over year and the copter calcular properties.

As floppy disks dropped in price and gained popularity,

gained popularity,
CP/M became the
standard
operating system
to control them.
Kildall made a
fortune
licensing
CP/M,
and he

that around
20 million CP.Ms
have been shipped.
However, when IBM
aunched its PC with a rival
company's operating system, Digital
Research's CP.M went into decline. Today th
world revolves around IBM and MS-DOS.

onto a single silicon chip. A radical rethink of microprocessor architecture came about, known as 'RISC' architecture (for Reduced Instruction Set Computing'), which drastically cut the number of components needed on a microprocessor.

lann Barron (the double-n on lann isn't a misprint) at Bristoh-based Inmos began to ponder what to do with the extra space on the silicon chip that had now been freed by the reduced circuity, and he decided to put some communications circuits there to enable two or more such chips to talk to one another. This turned out to be a stroke of genius, for now you could take several of these transputer chips and interconnect them so that they all worked in parallel, in theory. 10 transputer chips together would work 10 times as fast as a single one, and 100 chips 100 times as fast

tast.

Fortunately, Inmos thought to patent their transputer, although they've made no secret of their design details. The first transputer chip, the T414, was sold in mid-1986, and already virtually every major computer manufacturer in the world is developing new computers based

around it or its successor, the T800. The first transputer-based computer on sale looks likely to be Alaris' Abacı (reportedly a trendy play on the word Abacus) with up to 13 linked transputer processors. Costing between 23,000 and £5,000, if it lives up to its specification the Abaq will run at 13.5 million instructions per second, faster than the current top-of-the-range IBM maintrame computer. Although Atari are an American company, the design for the Abaq is being done in England by Perthelon Hardware of Cambridge.

Looking forward, the future of computing seems to lie increasingly with utra-powerful personal computers. Until recently, companies would buy a multi-million pound central computer for all staff to share, but now it makes more sense to give everybody a personal computer and link them all in a network to share files and general data. Computer manufacturers dedicated to selling massive mainfranes could be in for a lean time of the 1990s.

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TELEPHONE/ADDRESS BOOK Entries can be stored in abbreviated one or two line format or as full entries. A powerful search facility allows for fast access to any entries stored.



This features four days per page which can be printed for anything from one week to a complete year. The powerful on-screen text editing facilities include cut and paste to other parts of the diary via the clipboard

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AMSTRAD PCW PRINTER MAINTENANCE KIT FOR 8256/8512



the quality of print is to remain constant. A build up of dirt and link can impair legibility and ultimately damage the delicate equipment. Indeed, in the past the cleaning process itself could damage the very equipment it was trying to protect — until now! The Cleanprint cassette contains an uninked ribbon, impregnated with a specially formulated cleaning solution. By simply replacing the normal inked ribbon with the Cleanprint cassette and running the printer in 'self-test' mode for for approximately 60 lines of full character sets), the printhead will be clean enough to produce a quality of print.

as if it were new, at the same time safeguarding against costly damage to exp machinery. ecommended use for each cassette is 8 cleanings and each kit comes complete with

8 Cleanhand wipes for removing ink from hands and printer casings, along with a Clean-duster acrosol of compressed gas to blow away dirt from inaccessible areas of the printer.

Normal usked ribbon ---Cleanprint ribbon after use Cleanprint ribbon



The Cleanprint cassette will Remove ink deposits

Maintain print quality Protect and lubricate the printhead Simple to use and each kit comes with accessories to complete the cleaning process

TUTORIAL **NAIL DOWN** HOSE FILES

More power to your programming elbow; create and edit files in BASIC

f you've been following the BASIC series you can now write very sophisticated programs - with one problem. As vet we haven't mentioned files, so you can't save the results of a program to a file for future use, or work on data already stored in a file somewhere, etc. And 99.9% of useful programs require the ability to handle information stored in files (count words in a text file, add or edit items in a nameand-address file, and so on)

create a file ERASE.ME by the statement OPEN

"O", 1, "ERASE.ME". That "O" is a signal to BASIC that

some of the subsequent output from this program will be going into a file called ERASE.ME The '1' is there as a sort of temporary reference number for ERASE.ME - if you're working with more than one file, whenever you talk about file '1' then BASIC knows you mean ERASE.ME and not DELETE.ME or DESTROY.ME or any of the other files floating

To put something in this file, you use PRINT, but in a special way, using a hash (#) sign. The following listing should clarify thinas.

20 PRINT "This will

A file is created in BASIC by an OPEN statement. You can

10 OPEN "O",1, "ERASE,ME"

appear on screen"

30 PRINT #1, "This will go into the file" 40 CLOSE

If you run this listing, line 10 creates the file, line 20 prints to the screen but not the file, and line 30 to the file but not the screen - note that reference number 1 preceded by the hash mark. That last statement is essential - you must CLOSE a file before a program finishes. It puts a 'the end' marker in the file so that when you subsequently read data from it. BASIC knows when to ston.

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Do a directory by typing DIR, and you'll see that an extra file called ERASE.ME has been created. Typing TYPE ERASE.ME shows the contents of the file on the screen, ie. the message 'This will go into the file'. You can erase the file by typing ERA ERASE, ME - conveniently, DIR TYPE and ERA work within BASIC and you don't have to go back to CP/M and that A> prompt.

Phoney list

So, you want to create and keep a telephone number list. It must of course be saved to disc, and it must be easily updatable. Plus you'll want to be able to print it out.

You need three programs: the first to create the file, the second to print out the file, the third to display and amend it. The first is easy. All you'll do is create a file as above, type in all the telephone numbers you want, then close it. This is a sequential file (see the box) so all the information will be recorded in a continuous stream; to keep things organised we'll keep one entry to a line.

10 OPEN "O", 1, "PHONE. BOK"

20 PRINT "Enter name and number (type \$ to finish):" : INPUT aS

30 IF a\$<>"\$" THEN PRINT #1,a\$: GOTO 20

On running this program, you're prompted for a name and



▲ The adding routine – yes, it really works

▲ Checking it's actually worked File facts

enstein III Jr 01-974 6356

(tume \$ to finish):

There are two types of file, sequential and random access files. To picture the difference, think of a cassette tape and a CD. If you want to find a particular track on an album on cassette, you have to go forward through the entire tape until you get to the right bit. On the CD, you can just jump to the fifth track, say, immediately.

se you have a file of names and Suppose you nave a line or names and addresses, and you want to find one and alter the address; if stored as a sequential file, every lime of tack follows on immediately from its predocessor. Hence to do the alteration you have to read into a new file everything up to the address to be changed, then write in the warderss, then read in everything after the address from the old file into this new file, hen save the new file and erase the old file. fext files in word processors work in this orious way. In random access files, it's much

em is that you have to set up all the

▲ Creating your file

number. Type it ending with [RETURN]; you will be asked for more entries until you type a dollar sign to finish. (Line 30 does this). Now if you type TYPE PHONE, BOK you should see the entries you typed in printed to screen.

The file PHONE BOK will be on the 'default drive', ie, the one you're currently using, though you can make sure it's out on somewhere else by putting the name of the drive at the front of the name - OPEN "O", 1, "B: PHONE, BOK" and so on Check it's there with a DTR B:

If you want to print out all your entries onto paper, you just need to read the entries from PHONE.BOK and print them out with LPRINT. Now, the instruction you give to BASIC to open a file you want to read from is slightly different from the instruction telling it you want to open a file for writing to. To write something in a file you must have goened it with "O" for output (OPEN "O".1. "PHONE.BOK"): to read something from a file you must have opened it with "I" (OPEN "I".1 "PHONE BOK")

EOF is a very important function. It stands for 'end of file' and is followed by the reference number of a file. EOF(1) for example will be true if the end of file 1 has been reached and false if it hasn't. In conjunction with the WHILE statement it is often used in handling sequential files like thie

While U wait

To picture the action of the WHILE...WEND statement, think of the instructions at a level crossing:

- 10 WHILE (the lights flash)
- 20 (wait) 30 WEND
- 40 (proceed)

On getting to a level crossing, you look to see if the lights are flashing (10). If they are, you wait (20) for a bit. After waiting you then look again to see if they're still flashing - ie. the WEND sends you back up to line 10. If they're still flashing, you wait again, and so on, until the lights are not flashing; then you don't wait, but proceed, ie. continue from line 40

The following listing will read the entries in your phone book and print it:

- 10 OPEN "I".1. "PHONE. BOK"
- 20 WHILE NOT EOF(1) : INPUT #1, name\$: LPRINT
- 30 WEND 40 CLOSE

So, what the above listing does is to keep inputting one name at a time from the file and printing it, repeating this cycle until the end of the file has been reached. When that happens it closes the file.

Great. But it would be nice to do something with this data. First a routine to add data to your file. You can't just stick it on the end - you need to first open the file PHONE.BOK for reading (OPEN "I", 2, "PHONE.BOK") then for writing new entries to (OPEN "O", 1, "PHONE. BOK"), read in all the old entries, write them to the new file, close the old file, add the new entries, then close the new file. As hinted at the start, those reference numbers must be different in the two statements, or else BASIC will get its reading and writing mixed up. Again that WHILE statement

- 10 OPEN "I", 2, "PHONE. BOK" : OPEN
- "0", 1, "PHONE. BOK"
- 20 WHILE NOT EOF(2) : INPUT #2, entry\$: PRINT #1, entry\$: WEND
- 30 CLOSE 2
- 40 PRINT "New entry (\$ to finish):" : INPUT new\$ 50 IF new\$<>"\$" THEN PRINT #1, new\$: GOTO 40
- 60 CLOSE
- That CLOSE at the end is again very necessary and closes

all the files being worked on. If you just want to close one of the files you can CLOSE 1 or CLOSE 2 as in line 30.

Plus ca change

To amend stuff already in a file, you input items one by one from the old and check each one to see if it needs updating. If it's OK you write it to the new file. otherwise write the new version of that entry. This listing asks you for an entry to be amended and if the string you give it occurs in any entry in the old file, it asks you for the new version to be

ve entry to be changed: Arthur Smith 566473 la Smith 566473 in III Jr 01-974 6365 ▲ Changing one entry - this works too

> of file to be counted: Is words counted in file phone.bok

▲ The word counter

recorded. Line 40 makes sure that 'entry\$' is amended if necessary and line 50 prints entry\$' to the new phone book file.

- 10 OPEN "I", 2, "PHONE. BOK" : OPEN "O".1. "PHONE. BOK"
- 20 PRINT "Give entry to be changed:" : INPUT
- changeme\$ 30 WHILE NOT EOF(2) : INPUT #2, entry\$
- 40 IF INSTR(entry\$, changeme\$)>0 THEN PRINT "Old entry:", ENTRYS : PRINT "New entry:" : INPUT
- entry\$ 50 PRINT #1.entrv\$
- 60 WEND
- 70 01000

Note that because of the way INSTR works if you give Fred as the entry to be changed, both Fred, 667758 and Nina and Frederick 01-997 6637 will be amended, but FRED 667758 and ALFRED THE GREAT 718093 will not. EXIT

String 'em up INSTR is one of those 'string functions' mentioned a while

ago: you give it two strings and it tells you at which position ... the second occurs in the first. For example, if a\$='wombat' INSTR(a\$,"bat") is 4, INSTR(a\$,"womb") is 1 and INSTR(a\$,"x") is 0

Count vourself in

In all these examples, the name of the file to be worked on is contained in the program. But what if you might want to work with different files – for example, you want a program to do a word count on file X7 You can just OPEN a file whose name is contained in a variable, for example:

- 10 PRINT "Give name of file to be counted:" : INPUT fileS
- 20 OPEN "I",1,file\$
- etc. will ask you for the name of a file and

ice, will assay you for the name or a file and hatever you type in, the program will look for lat file and open it for reading from. Now something for all you frustrated occoscripting writers. Elderly readers may wremiber when we first published a word until filling back in issue 1. Now you can the your your. This provises the promoted the your your. our own. This one uses the c LINE INPUT which, surprise surprise, inputs a whole line at a time, i.e. it reads everything up to the next [RETURN]. The command INPUT only goes as far as, for example, a comma or a [RETURN]. The variable inword% is used as a g – if, as it works its way through the file, program is currently inside a word, word% is –1, 'true'; when it sees a space but word% is still true, the program knows it must just have come out of a word, and increases the word count in word% by 1. Then it sets inword% to 0, or false

- 10 PRINT "Give name of file to be counted:" : INPUT name\$
- 20 OPEN "I",1,name\$
 30 inword%=0 : line%=line%+1
- 40 WHILE NOT BOF (1) : LINE INPUT 1.lineS
- 50 FOR i=1 to LEN(line\$) 60 c\$=MID\$(line\$,i,1)
 70 IF c\$=" " AND inword%=-1 THEN
- word%=word%+1 : inword%=0 80 IF c\$<" " THEN inword%=-1
- 100 TF inword@s-1 THEN word&menrd&+1
- 120 PRINT words: "words counted in file
- 130 CLOSE
- The word counter here will only couple text files, ie. ASCII files, LocoSci ments must be converted to ASCII - s

the manual – and put into group 0 before; count them. To count the words in a Loco document directly you need a bit of clever decoding – see 8000 Plus issue 14 p64.

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Travelling in time, as any commuter will tell you, is an exciting phenomenon. For instance with British Rail, you can arrive at your destination five hours later than you should have done. If the prospect of travelling back and forth in time is something that excites you then you should find this trilogy of adventures from Level 9 right up your time warp. But be warned. Time travel can seriously threaten your insanity.

In the first game (all three come on the one disc), Lords of Time, world history itself is under threat from a bunch of Dr Who clones, or Timelords as they prefer to be called. It is their intention to distort time and eternity to make it totally unrecognisable. Of course, this is a monstrous plan. After all, where would we be without 1066, Paschendale or Vietnam? I mean, history would be unthinkable!

To ensure, therefore, that our cherished history books remain suitably xenophobic, racist and sexist pieces of propaganda, you must travel through time's nine zones. Your task is to obtain nine objects – each marked with a sign of the holy hourglass - and hurl them into the cauldron at the end of time. Just to make life interesting (and increase your score) there are various treasures to collect along the

Travel is by clock of course which, though a little gramped, provides maximum privacy. There are some nice touches in this game - for example, the occasional déja vu effect or the narcissus flower that longs to see his true

Once in a Red Moon

Red Moon, the second adventure is not, as you might think, about the Militant Tendency in exile. Instead it's a kind of gory on the recent demise of the Labour Party. The Red Moon Crystal, the source of power, has been lost. As a kind of Neil Kinnock surrogate, it's your task to locate the crystal and restore the world to its former magik. Various spells are at your disposal which, unlike most of the opposition leader's ches, are brief and to the point.

The locations in this adventure are in the classic mould with a castle, temple and tower to name but a few Interaction tends to be physical rather than verbal in nature. For example, the rather large blacksmith - the Giant Haystacks of adventures - attacks without reason and will certainly test your courage. This all adds to the game's very strong atmosphere provided by the detailed and well-written

Magik inflation

The third game, The Price of Magik, takes the story one step further. This time, the guardian of the crystal goes bananas and actually steals it, hoping that it will give him eternal life. Your task is naturally to get the crystal back. Much of the action here takes place in a mansion, though before you can progress, there are a few essential clues to discover in the garden. A novel feature in this game is the HYP (hypnosis) spell which gives you power over other characters -

something I'm told Mrs Thatcher employs frequently - though this is limited to one creature at a time

Again, interaction in the game tends to be more entertaining than subtle, and perhaps a little too realistic for my liking (such as the tussle with the giant slug which reminded me of a recent encounter I had with a tax inspector.) The light source is provided by rubbing one's eyes with a certain flower. This is interesting because too many adventures (including the first two of this trilogy) rely on the old clichés of lamp or candle

Additionally, some adventures fall into the trap of

providing too many difficult puzzles at the outset, something which can put off the average adventurer straightaway. Commendably, none of these games make that mistake and where puzzles are difficult, hints are sometimes provided in the text itself.

Let me try again

These games can be played in any order and come with the usual range of commands, including BRIEF/VERBOSE, RAM save (which means that you don't have to swap disks in the middle of the game) and UNDO which makes good any terminal mistakes

The digitised pictures accompanying each game are excellent. Not only do they enhance the atmosphere cre by the text but (unlike some other adventures) they also load very quickly. This speed is important as the graphics in some adventures are irritatingly slow to load.

Overall, Time and Magik is an excellent package. If you don't regard three classic adventures for the price of one value for money then you're a whingeing Nacod!



▲ Lords of Time: A Country Home contains much that is useful





PLUSES Interesting scenarios Strong atmosphere Excellent playquide Well-executed pictures Interesting puzzles

MINISES Some of the interaction can get a little monotonous

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RUNES OF POWER

ore and more writers seem to be bashing out fantasy trilogies these days. More and more writers are switching from typewriters to computer word processors. Could the facts be related? All right, I know, it isn't logical to insist on a connection... there are equally good statistical arguments which "prove" that television causes insanity and medical care causes cancer. (TV set purchases and the number of mental cases both rise together with the ever-swelling population; a good health service keeps more people alive to suffer the afflictions of old age; never buy a used graph from a statistician.)

a used graph from a statisticate. Nevertheless, you can hudge up Nevertheless, you can hudge up some interesting parallels between the computer boom and the homble proliferation of more sick of the latter: there are allogether too many derivative allogether too made of the formation of the Amuli, Chiefatin of the Thorists and Czar of the Anopol, divided into three dreading memissions who there is a proper memission.

One of the most familiar fantasy plotlines goes like this. Pat Nurd is a no-account but ever so sympathetic young filing clerk from our world, or stablehand's apprentice in the book's imaginary world, who steps through a magic doorway and is Pitchforked Into Adventure, Helpless at first in the menacing fantasy wilderness. Pat soon learns a few tricks and spells which control the magical fabric of the universe... and with the help of grimoires and perhaps a wise old mentor, struggles to learn more. By the middle of book three, this formerly inadequate stable clerk is a Mage who knows the True Names of things and can toss off Words of Power to command the forces of nature. It certainly beats working for a living.

(Greg Bear's novels The Infinity Concerto and The Serpent Mage offer one of the more intelligent recent versions of this rags-to-runes story.)

The real world version Let's run through that familiar scenario again. Pat Nurd is a noaccount but ever so aspiring young writer, who steps through the enchanted door of the computer shop and is pitchforked into a strange new world. Helpless at first in the menacing silicon wilderness. Pat soon learns a few tricks and commands which control the awesome fabric of the operating system... and with the help of computer magazines and perhaps a local user group, struggles to learn more. By the time Pat should have finished book three of the current contract, this formerly inadequate hack is a Power User who knows three computer languages and can write programs to do all sorts of fun things.

of course, Pat might not be doing so much actual writing....

If you accept the common picture of a writer as a mildly ineffectual person whose fantasies are acted out on paper, there's definitely a trap waiting here for the unwary. Behind the computer screen lies a strange and different space, a land which just like the average fantasy universe obeys new but suspiciously simple rules: rules that you can learn. All the sentences of its language are in the imperative - "Do this, do that, for I command that it should be so" and if they're phrased correctly they will always be obeyed. Gosh, what an ego trip. (Of course you have to watch it when invoking powers like the Demon Assembler - one misspelling, and this fiend can burst free of the pentacle to wreak havoc on your naked, vulnerable disk directory.)

Really?

We'd better not push this analogy too far. The general point is that, just like the standard untrainedwizard-makes-good plot, tinkering with computers can pamper one's A page in the company of author and

PCW pundit

David Langford

NGFORE

little power fantasies. Issuing commands is fun. Getting a program to work is so much more definite and definable an achievement than bashing out another thousand words of prose which might well have to be rewritten anyway.

All power corrupts, they say, and the absolute power we wield only in fantasies and programming... corrupts absolutely, like Tolkien's Ring. You can fiddle round obsessively with a prime-

number program or a deeply useless means of detecting split infinitives: you can feel you're doing things, achieving things, when the end result is a re-inventing of products rather less useful than a source wheel. Needless to say, this kind of skewed obsession with what's supposed to be a writing tool is not necessarily all that good for the

Readers, this is no empty theorizing. Take pity on the neurotic, obsessed wreck which used to be a novelist called David Langford. The bytes have got to my brain cells. I've become a software company but it's a year or more since I actually wrote a book. Even if I can switch the creativity interface module back to writing mode, there is the ghastly fear that I'll end up producing a heroic fantasy trilogy, Quest of the Silicon Mage, in which the scorned hero discovers his ability to program the universe in Pascal, and...

Semantics corner

When is a piece of add-on software for LoosScript not a piece of LoosCoript add-on software? The difference is that the first description is ideologically OK for anyone to use, while the second, according to Locomotive Software's eager and sharp-toothed lawyers, constitutes an attempt to defraud the public by implying that one's add-on program it

written or approved by Locomotive hemselves. It might sound daft, but be warried: lawyers have this magic lower to see evil where others can't. I myself have utterly foresworn and abjured the marketing of LocoScript dodon software, and am nervously confining myself to the completely different field of add-on software for cooScript.

FREE -FOR A FEE

Adrian Wilkins looks at free software you actually pay for

e are all a little lired of marketing adages such as "Don't miss our FRE ofer", "Pay No Money Now Wee'll make sure you'll pay lots later), acc. Where's the catch, I hear you say, Now here's an interesting slant: a paperback book which you actually pay lot outsulg you grous such currency in your hade pooker.

In the year 14 BA (before Amstrad), or half of eternity

ago, there were – surprisingly – a few other microcomputer manufacturers in existence. One of these was Kayno flug the States, Kayno did what Alan Sugar is doing today in Britain and Europe. Historians will tell you that a high proportion of PD software came into being because of Kayno and the following they archieved. As did the Free Software Handbook.

Written by Gregory Platt, Patricia Hatcher and Blake van Meter - three American veterans of the 8-bit computers - and published by Peopletalk, the Free Software Handbook is a compendium of public domain software for CP/M computers, some of it already covered in these pages, others not. A bargain indeed, running to over 300 pages. Useful background information, a whole host of games to pick your wits against (Adventure, Chess, Golf, Racing, Star Trek, Lunar Module, etc), utilities galore, printing programs to put Robert Maxwell to shame, a special section for thoroughbred (and would be) hackers, and more.

or Advantage

Oh, and I nearly forgot to mention, you receive 3 double sided disks with every purchase. No, not blank ones – they contain all the software described in the book. Free!

Dropping catches

Is there a catch? Well, a few, actually. Firstly you will have to beg, borrow, or steal MBASIC or OBASIC if you intend to use the games programs – Locomotive's MALIARD BASIC is rather more modern than these, although if through 8000 Plus you have learned how to program in BASIC you stand a good chance of converting them vourself.

Be a little cautious using the disc repair and file undelete utilities with your PCW's B drive — B disk files are organised in 2k block quanta and not all early CP/M software performs correctly with these.

You will need to hack the communications program provided because of hardware differences between the Kaypro and PCW, and you might be better advised to buy one of the comms programs specifically tailored to your machine, such as were reviewed here a few months back.

Although the FSH offers brillant value overall, there are a few disappointments with the Hackers chapter a number of the supplied programs are effectively redundant on the PCW, since Amstrad supply, CPM Pius (synonymous with CPM version 3). Thus on your Amstrad disk side 3 (the CPM Programming Utilities) you will already find DUMP COM, so you don't have any use for IDUMP; you can already divert console or printer output to a disk file using PUT COM, so IO-CAP is superfluous, and most of the features of EZCPR are bull-in with CPM Plus anyway, such as redefining devices, disk and directory search paths, password security, and HELP.

One offering that particularly caught my eye is UNSPOCL.COM — a program that once loaded sits invisibly in the TPA and prints a file while you continue to use the PCW for something else. However, even with this there is a drawback – UNSPOOL relies on the printer buffer to keep the printer active, only topping this up while you are at the A> prompt. So if you run a lengthy program the printer soon stops, continuing only when you next return to CPM.

As with all things in life, you pays yer money and you takes yer pick.

The Free Software handbook is distributed in the UK by Davis /Rubin (0386 853610) for £39.95 ISBN 0-915907-07-0

 PDSL's address is Winscombe House, Beacon Road, Crowborough, Sussex, TN6 1UL. Their telephone number is 08926 63298.

PDSL



Creme de la creme

As this month sees the last of our present series on Public Domain software, here is a brief recap of the pick of the bunch.

Database DBQ (issue 12, Sept 87) from PDSL Disc repair DU (issue 10, July 87) from PDSL

Comms MEX (Issue 19, April 88) from PDSL File Utilities NULU, NSWP (Issue 18, March 88) from

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LISTINGS

Be amazed by the graphic details in this Arcade game from Mallard BASIC

ODIOSUM

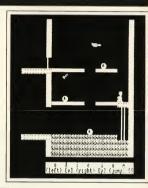
by Richard Hopkins

K. It's long and it looks pretty complicated. But this little game has the best graphics you've seen since you put your Spectrum ZX in the cupboard. Well, at least it's the best you've seen in Mallard Basic.

The idea is not entirely new. There were, at the last count, two or three million of these maze type games involving a little character climbing up the screen, jumping over objects which inexplicably kill him if he touches them. But you don't get many in Mallard Basic.

The strength of the game is in the graphics which are surprisingly good. This is achieved by redefining a number of characters and then combining them to make up the man and the maze. Also note the method of blanking the screen until the screen is bull tup (line 470 and line 580).

If you typed in the handfont program in December edition you will be at least part of the way there. But instead of



Give us a break
There are times when we can't
make life really simple for you
and some lines actually get too
long for our PCV printer. Just
remember not to press
(RETURN) if the line wraps over
to the next line. Keep going rift
the end of the line of BASIC
before [RETURN]ing, And don't
expect the line breaks to come
at the same place as they do on
your screen.

your screen.

This is also a time when the checksum program printed regularly in 8000 Plus really comes in useful. Having a check number at the end of each line to help you limited to help the program wistakes comes in really useful especially for those DATA lines. If you haven't typed it in this might be a good time.

30 DATA 41, 25, 17, 154, 192, 235, 1, 8, 0, 237, 176, 62, 133, 211, 241, 62, 134, 211, 242, 251, 201	110F
40 FOR char=160 TO 191: POKE &HC099, char	0D01
50 FOR row=1 TO 8: READ binary(row): POKE &HC099+row, (binary(row)): MEXT row	1C70
60 cl=&HCO70: CALL cl: WEXT char	OAE8
70 DATA 0,63,63,60,63,63,15,15,0,192,240,192,240,192,0,192	OD1C
80 DATA 63, 255, 255, 15, 63, 255, 252, 255, 240, 240, 60, 204, 240, 60, 252, 63	0882
90 DATA 63,255,255,63,63,63,63,63,240,240,240,192,0,0,192	0B62
100 DATA 0,3,15,3,15,3,0,3,0,252,252,60,252,252,240,240	
110 DATA 15, 15, 60, 51, 15, 60, 63, 252, 252, 255, 255, 240, 252, 255, 63, 255	0C01
120 DATA 15, 15, 15, 3, 0, 0, 3, 252, 255, 255, 252, 252, 252, 252,	0E72
	OCEE
130 DATA 255, 85, 170, 85, 255, 0, 0, 0, 85, 170, 85, 170, 85, 170, 85, 170	0D63
140 DATA 0,0,0,51,204,51,12,0,12,51,192,48,0,0,0,0	0A98
150 DATA 15,60,240,240,240,255,63,15,240,252,255,255,63,255,252,240	0E7F
160 DATA 20,28,20,28,20,28,20,28,186,202,202,189,123,119,205,74	0E36
170 DATA 0,0,0,63,207,63,0,3,12,51,15,60,243,63,15,48,192,0,63,207,63,255,252,0,	0,48,192,240,
192,0,0	
	151C
180 DATA 0,0,12,3,15,3,0,0,12,3,0,252,243,252,255,63,192,48,204,240,60,207,252,240 243,252,0	,0,0,0,0,252,
	1539
190 DATA 0,0,0,15,60,243,63,15,0,0,0,255,207,63,255,252	OBAS
200 DATA 0,0,0,255,243,252,255,63,0,0,0,240,60,207,252,240	OCA7
210 RUM "odiosum"	0745
	0140

10 MEMORY &HBFFE: FOR hex-\$HC070 TO &HC098: READ pk: POKE hex, pk: HEXT hex

redefining the character set Mr Hopkins has redefined a number of those vaginosis symbols that you only discover when you press [ALT] instead of [SHIFT] by accident. (See the different ASCII character numbers in line 40). So remember if you use any of these characters you will have to reset your machine after playing Odious.

The program comes in two parts. The list section redefines the characters it requires and then calls up the main program. It is therefore sensible to call the second program 'Odiosum' or change the file name at the end of the trist listing. Mr Hopkins chose the name '-you'll discover why. After the first time you can save time by going straight to the second program.

You move left using [Q] and right using [E] and you jump using [P] Just press [P] once or you bound about the place like a kangaroo. Go to the end of each level and an automatic lift thoughtfully raises you to the next set of dangers. You have to collect the key on the middle level and then get to the door on the top level (top left). Avoid the bird (the author described it as Alan Sugar's executive eating pteradactyl but we can't spell that so we'll just call it a hird) or that will kill you too.

If you find it too difficult (or even not difficult enough) you can change things by altering where the nasties change direction (lines 300,310 and 370) and the speed (contained in the 'ed%' variables in line 40). You can even change what keys to use by small changes in lines 70, 90 and 110. In fact with enough enthusiasm you could create a game with 50 different ecroone to help you while away the long winter evenings. But don't send them to us. We couldn't do

this one

O REM Odiosum- Main Program 30 DES PROTÉG, 7) = CORS (27) + T* + CORS (3) + 2) + CORS (3) + 7) + CORS (3) 00 fg 7/2=181(9/2) like M=CHM3(170)+CHM3(171) klake M=CHM3(170)+CHM3(171) klake M=CHM3(170)+CHM3(171) klake M=CMM3(170)+CHM3(171) klake M=CMM3(170)+CHM3 90 pp (laste THEN assCHEM (160) CHEM (161) / yPoyl- (yIGY)
110 pp y1/2c-pp (yI/2) THEN assCHEM (160) CHEM (161) / yPoyl- (yIGY)
110 pp (laste yr THEN ASSCHEM (164) CHEM (165) ALSO has CHEM (162) CHEM (163) ALSO has CHEM (162) CHEM (163) ALSO has CHEM (163) CHEM (1 ":ins=IMERTS:IF ins="" THEM GOTO 120 1461 1F9B 158B 130 Pp147 FREE(xx,yx); has Phats (xx1,yx); has come 200
130 Pp (yx-50 AED .75.00) 000 (yx-50 AED .85.00) 200
140 Pp (yx-50 AED .75.00) 000 (yx-50 AED .85.00) 200
140 Pp (yx1); 420 yx(46 AED .yx(4) AED .74.4 AED .15-1) 7888 000000 300 1663 130 IF (Y=56 AID xX=20) OR (Y=56 AID xX=14 AID 150 IF xX=4 AID xX=15 IRRF GOTO 240 BLSE GOTO 600 BLSE GOTO 600 IRRF GOTO 400 GOTO 600 BLSE GOTO 600 IRRF GOTO 400 IRRF GOT 0551 1879 150 IF AS-CARD YEST THAT GUID OUT MANS GUID OUT AND GUID 150 pp 14-CHRR(160) tells (161) THEN 14-1 ELEC | 15-1 |
150 pp 14-1 |
15 OFBO 1615 0F68 172F 100 IF Ja-1 HERR AN-CHER (102) (CHER (100)) IF JA/2-III (1/2) THEN AN-CHER (102) (CHER (100)) IF JA/2-III (1/2) THEN AN-CHER (102) (CHER (102)) IF JA/2-III (1/2) THEN AN-CHER (102) (CHER (172)) IF JA/2-III (1/2) THEN AN-CHER (104) (CHER (172)) IF JA/2-III (1/2) THEN AN-CHER (104) (CHER (104)) CHER (105) 091E 1059 210 PHIT PALL(XI,YI), AN PRACK(XI,YI), MA 220 10 110-100 AND XX-11 AND (YEAR) XX-12 AND XX-12 AN 130R OFOD 105R 240 PRITE Flats(ct, 73); Flats(ct:1, 74); 220 32-321; PRITE Flats(ct:1, 74); 220 32-321; PRITE Flats(ct, 73); 221 321; PRITE Flats(ct, 74); 221 321 0022 1247 270 RUDEN
280 GEORG 440; PRIFT PROIS(15, 63); *** c2-s2fed5; PRIFT PROIS(15, 63); GEES (176); GEES (177)
290 FRIFT PROIS(0, 615); *** c2-s2fed5; PRIFT PROIS(15, 62); GEES (176); GEES (177)
***c1.5c1.5f.act(15, PRIFT PROIS(16, 615); GEES (176); GEES (177) OEAF 1900 CL, 72); a8; FRatS (XI; 1, 72); b4: COSUB 280: COTU 240 . FRatS (XI, 72); a8; CERS (7): 12: FUE a=0 TO 255: COT 246, n. HEIT 19CB 290 PRINT FRACES (9, e1x); " :e1x=e1x.
300 IF ex=31 OR ex=40 THEN edx—edx 0D32 300 Prist Facts (5, e2x); see edit edit oct 11F4 OPAF OC6R IF edgk=1 AED egg/2() IET(egg/2) THEM PRINT FEats(9, egg); CHEM (184); CHEM (180); CHEM (1911); 340 (187) IF edge-1 AED egg/2-let(egg/2) TREE PRIST FEats(5, e25); CRE2(180); CRE2(181); CRE2(182); CRE2 (183) | F edgt=-1 AED e21/2() | ET(e21/2) | THEM FRIST FRACE(5, e21); CHEM (180); CH (183) 370 IF 621-41 OR 621-47 THEN 6621-6627 150 FMR pc0 TO 941007 245, 8 EHT 1
450 BMR TOR 41007 245, 8 EHT 1
450 BMR TOR 4100, 8 EHT 1 100 ABRC 141 11 10070 020
450 FM CARD 25 ABR 385(ST 100 ABRC 141 11 10070 020
450 FM CARD 25 ABR 37 ABRC 100 ABRC 141 11 10070 020
450 FM CARD 25 ABR 37 ABRC 10070 020
450 FM CARD 25 ABR 37 ABRC 10070 020
450 FM CARD 25 ABR 37 ABRC 10070 020
450 FM CARD 25 ABRC 10070 020
45 1882 0B32 079B 470 PRINT C18: OUT 248,8 400 PRINT C15/ONT 246.0 440 PRINT PRINT PRACE(S, 20); CHES (173); CHES (173); FRACE(S, 50); CHES (173); CHES (173) 158F 1BOR 400 ERIF FRATE(22,20), STREEG(11,190); FV3; STREEG(4,170); EV4; ST 1348 500 PHIF Flats (22, 20); STRING (11, 179); res.; STRINGS (24, 179); res.; 510 FRA res.; 10 25; FRIST Flats (3, 31); res.; STRINGS (24, 179); res.; 500 pripr. pages (29) 001; res.; (3, 31); res.; STRINGS (28, 179); res.; 510 pripr. pages (29) 001; res.; (3, 31); res.; STRINGS (28, 179); res.; 510 pripr. pages (29) 001; res.; (3, 31); res.; STRINGS (28, 179); res.; 510 pripr. pages (29) 001; res.; (3, 31); res.; STRINGS (28, 179); res.; 510 pripr. pages (29); res.; (3, 31); res.; STRINGS (28, 179); res.; (3, 31); res. OBDA 1374 520 PRIST FEATS (CZY, 20); FFS; 0 d d 1 OT 1550 PRIST FEATS (CZY, 20); FFS; 0 d 1 OT 1550 PRIST FEATS (CZY, 20); 0 1389 530 Fig 2017 ID 21: FEB1 (0,20); * : FEB 1770 03C0 550 PRIT FRAIA(0, 31);STRIKA(24, 172);FRAIA(10, 31);STRIKA(24, 172); 550 PRIT FRAIA(10, 43);SPICEA(4);FRAIA(10, 31);STRIKA(24, 172); 570 PRITY SPAIA(11, 30);CDMA(174);CDMA(175);FRAIA(10, 31);STRIKA(24, 172); 570 PRITY SPAIA(11, 30);CDMA(174);CDMA(175);FRAIA(10, 31);STRIKA(24, 172); 570 PRITY SPAIA(11, 30);CDMA(174);CDMA(175);FRAIA(10, 31);STRIKA(10, 20);STRIKA(11, 179); 570 PRITY SPAIA(11, 30);CDMA(174);CDMA(175);FRAIA(10, 31);STRIKA(10, 11);STRIKA(11, 179); 570 PRITY SPAIA(11, 30);CDMA(175);CDMA(175);FRAIA(10, 31);STRIKA(10, 20);STRIKA(11, 179); 570 PRITY SPAIA(11, 30);CDMA(175);CDMA(175);FRAIA(10, 31);STRIKA(10, 20);STRIKA(11, 179); 570 PRITY SPAIA(11, 30);CDMA(175);FRAIA(11, 170); 570 PRITY SPAIA(11, 30);CDMA(175);FRAIA(11, 170); 570 PRITY SPAIA(11, 30);CDMA(175);FRAIA(11, 170); 570 PRITY SPAIA(11, 30);CDMA(11, 30); 570 PRITY SPAIA(11, 30); 0740 500 PRITE FRALE (16, 43); EFACES (4); FRALE (10, 43); EFACES (4); FRALE (10, 20); STRIKES (10, 20); ST 1BED 033E 580 OUT 248, 7: RETURN 590 FOR BY=0 TO 91:00T 245, BY: MEXT 18CB 500 FMR Si-0 TO 91:007 345,01:EET

610 Mar. 200 TO 205:007 245,482(6):007 245,482(6):EET:007 245,91:F21FT CHE247)

610 Mar. 344 Comparativistics was have completed CD100000 1873 0D09 ORET 620 GOSUB 470 600 00089 470
500 00089 470
500 PRIT FRAIS (28,09); rel; LEFTS (mes.52); nes.
640 [F IRETS()* * TREE OUTD 600 ELGE 00TD 40 1078 1619 1990 14P 07E2 0B93 1C47 16FB 03FD 1420

LOGO/STOP PRESS **CONVERTER**

by Dr MD Buckley-Sharp

ver the months we seem to have been neglecting poor old Logo but this month Dr Buckley-Sharn has given the high resolution graphics a boost with this program to convert Logo Pic files into a format suitable for loading into Stop Press.

Well as the good doctor points out Logo gives you shapes drawn from a formula rather than freehand as in Stop Press. So if your drawing needs to be correctly scaled or involves a mathematical function as would a graph, it is probably the easiest method to use

To do this you have to save your Logo drawing as a '.PIC' file. This is done with the SAVEPIC command savepic "monalisa" which will give you a file called MONALISA.PIC on disc.

Now it so happens that a '.PIC' file has 92160 pixels. which by a strange quirk of fate is the same number as in a Stop Press '.SPC' file - although they are in a different

This program simply uses BASIC to convert them to the right order. Just type in the .PIC file name when prompted and you wait until all 32 lines are converted.

	Why should you want to do this?	1B1C
		15C0
	RIFT "Frees (RETURE) for a list of .PIC files on this drive or " ster " "Sater filename without .PIC extension";	074D
	PIC files On Car	OBAF
	for a list of a tension";	OF6D
	*Press (RETUKS) without .PIC	0914
) P	Rini *Knter filename	0C41
0 I	RINT "Press (RETURN) for a list of .PIC INTEGER PRINT "Enter filename without .PIC extension"; PRINT "Enter filename without .PIC extension"; PRINT "Enter filename without .PIC extension";	OADA
0	Ja maiofs: picfs=0; picHTs(picfs, 1)	0 BC2
0	(MFVI PE LEN(picfs)=2 ABD RECORD 100 IF picfs=" THEE GOTO 100 IF picfs=" THEE GOTO 100 IF picfs=" THEE GOTO 130 Francisch* SPC::picfs=picfs=" THEE GOTO 130 Francisch* SPC::picfs=picfs=" THEE GOTO 130 Francisch* SPC::picfs=" THEE GOTO 130 Francis	18A7
15	IF LESS THEE GUILDES PICES . PIC	OF1E
50	IF picis, SPC": picis, SPC": picis, 2) Harris (picis, 2)	15A2
60	SPCI WTS (nicfs) () (cfs; ") not lumb picis	110C
70	INFOUR POPLOTS)=2 AND MARKET IF LEMS POPLOTS THEN GOTO 100 IF plots = (SPC', Spirts = GOTO 130 IF plots = (SPC', Spirts = GOTO 130 IF PINDS (plots)	06EB
80	PRIMI (picfs)>2 AND PRIMI DICFS; drive PRINT: GOTO 20	OAD4
9) IF LESS ON THES PALES DICES+" PLOTTER 10	1106
1	IF First Input file "In Historicis, 2, 1) - 19 FILE IN TOUCH STATE THAT THE THE THE THE THE THE THE THE THE TH	
		05B9
1	20 IF RER-63 INDEX = 'O" 2.epcfs 30 OF REROR GOTU 0: OPES = 'O" 2.epcfs 40 OPES = R" 1.plcfs: OPES = 'O" 2.epcfs 150 DIM && 60:) PRIST * Vait Converting 32 lines* 150 DIM && 60:) PRIST * Vait Converting 32 lines*	OSEA
1:	130 OW READS 1 picfs: OPES Converting	077C
1	140 OPEN (A) PRINT WALL	0D6C
1	150 DIA - CLAVAILADIE	16B9
1		0C33 \
1	170 FOR THE TO 8:ds (FOW)	15CB
1		047F
- 1	170 FOR TOWARD TO 8:GS (TOWA) 180 FOR TOWARD (AVAILABLE S.) 180 FOR TOWARD (AS (TOWA) 200 ENGINE S.) 190 need%-90-LEM(dS (TOWA) 200 (TOWA) + IMPUTS (available %, 1) 190 need%-90-LEM(dS (TOWA) 200 (TOWA) - IMPUTS (available %, 1)	0706
1	200 IF available%>0 THRS COTTO 190	1700
	100 FOR limeF=1 10 six frowf; 20 cm 10 for limeF=1 20 cm 1	070D
	220 GBT	0E57
	230 ds (TOWN), column, 1); inches	1989
		02BB
	250 FOR COLUMN TO 8: PRIMI WE SHOULD THE SHOULD SHO	
	260 FOR TOWN 10)+48); HEAT tod file is in to	
	270 MELI CURS ((line% Mills converted	
	200 POR column=10 8; PRIFT 22, Market 10 8; PRIFT 22, Market 10 8; PRIFT 22, Market 10 8; PRIFT 22, Market 11 10 8 Market 10 10 10 10 10 10 10 10 10 10 10 10 10	f you've forgotten which
	290 PRINT: Circum have an dies in	
	goo BED files you have on disc ju	ust bress [HE I DHM] at

Better and Better

300 BED

Readers seemed pleased with our spell checking program last month but as with all programs, there's always an improvement. Roy Archer has sent in some minor alterations to the program that mean that as well as spell checking the program also does a word count. All that needs to be done is adding

the word : count=0 at the end of line 30, changing line 260 to read 260 IF word\$>"" THEN

count=count+1:GOSUB 320:PRINT #3 words . . words ... and amend line 680 to 680 CLOSE #1:CLOSE:PRINT:PRINT

"File "; check\$; " contains ";count;" words": END

As the counting is done in line 260, before the program discards the words of under two letters and those of more than 18 letters it should be pretty accurate.

If you've forgotten which files you have on disc just press [RETURN] and a directory of the .PIC files on the disc in the current drive is printed out. Put in the drive letter with a colon (for example B:) to get a directory of that drive.

When you get the picture into Stop Press you can reverse the screen (K2 on the Stop Press menu) if that suits you better.

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LOGO CAPTIONS

by Robert Samuels

n a sudden surge of interest in Logo we include one or two short utilities that make life easier for the Logo user who wants to mix graphics and text on screen. First there is a caption writer. So once you have completed

rist time is a capiton witten so drice you have completed your Logo version of "When did you last see you father?" you simply move the cursor to place where you want your caption to go. Then type in truttlepos (which finds the current turtle position and sets the cursor to it) caption (which prompts you for the caption) and write (which writes)

it centred on the furtle). It also ends up with fa or full screen giving the full screen over the graphics and therefore cutting out any gunge when you save the picture (and convert it into a Stop Press formula if you've tried the other converter listing).

isisting). The final effort is a simple but effective method of taggling your efforts. Again when you are finished type FIG and a number (say fig 3 and 'Fig.3' appears in the top left hand corner – or wherever you want by setting the figures after setcursor.

SCI

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You load Logo by typing Locs when you have the suitable CP/M utilities disc in the drive and just enter them as you see them here pressing [RETURN] at the end of each line. By writing SAVE "filename you can save all the utilities to disc and these can be loaded the next time you use Logo by typing Load "filename."

```
to turtlepos
 make "xpos item 1 tf
 make "vpos item 2 tf
 convertpos
end
to caption
 setsplit 4
 pr [What is the caption?]
  make "caption rq
  make "captionlength (count :caption)
 ts fs
end
to fig : no
  setcursor [70 5]
  type se [fig.] :no
end
to write
 +=
 setcursor (se (:column - round (:captionlength / 2)) :line)
  pr : caption
 fs
end
```

How to type in a listing

Load up Mallard BASIC – to do that, Insert your CPM disc, reset the machine and at the Aprompt type BASIC/RETURN). Now you see the 'OK' prompt. Just type in the lines of the listing exactly as they are printed on the page (but not the numbers on the extreme right). Type LIST at any time to print out your typing so far to the screen; if you want a printout to pore over, type LISTS.

Mistakes made before you press RETURN can be corrected with the DEL keys, otherwise you have to use the line editor. Suppose you've made a mistake in line 100; type EDTT 100 and then you can use the cursor keys and DEL keys to correct it. Press RETURN when the line is OK. To delete a whole line, type its number only and press DETTION.

When you've fininshed, save the program to a disc by the command SAVE "FRED (or any other sultable name of eight letters or less). To run the program, type RUN.

Programs rarely run first time, but when BASIC encounters a mistake it tells you where it is, "Syntax Error in line 60' means a mistake In tha line (though the actual typing error may have occurred in a previous line, causing problems in this one). Other error messages can often occur foo. Lies the EDIT command to correct it.
You can rerun the progra

another day by loading BASIC up as before and, with the disc on which you saved the program in the drive, typing LOAD "FRED and then RIM.

Good programs needed!

We're looking for well written programs of up to 50 or so lines which we can print in these istings pages each month. Of course, since we can fit more of the shorter listings in, and they're easier to type, the longer ones have to be really special!

If you can program you could earn hard cash and instant lame by having your program printed in 8000 Plus. Give instructions on an accompanying sheet for using the program, and if there are any useful modifications that readers can make by simple edits to customise the program, mention those too. To submit a listing you must supply: 1) A printout of the listing;

2) A disc on which it is saved;

A stamped addressed padded bag for its return;

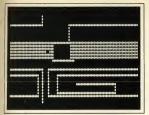
 An explanation of what it does and how

to use it;

5) A signed statement confirming that the

program is your own work and hasn't been submitted to anyone else. Send all this to Listings, 8000 Plus, Bath BA1 1EJ and allow up to 40 days for the

BA1 1EJ and allow up to 40 days for the return of your disc – we assess the listings in a batch once a month.



he best games are always the simplest ones. This one is delightfully simple to explain but ""he hard to win. All that happens is that two streams of diamonds shapes (one filled diamonds, one empty) appears other screen You control the direction of the fine of filled diamonds using the cursor keys. At the same time the PCW is controlline the line of empty diamonds.

What you have to do is not cross your own or the omputer's line – at least not until the computer is stupid enough to do it first. You can even go off the edge of the screen if you want. Going off the top brings you out at the bottom the screen and so on.

SQUONK

by Peter Gerrard

Sounds easy, doesn't it? Well the problem is that the diamonds do appear on the screen at a rapid rate of knots and you don't really have much time to ponder on the meaning of life while you are playing.

The computer actually cheats a bit because it waits until it reaches a line of diamonds and pauses for a fraction of a second deciding on which way to go (it chooses at random although at times it doesn't seem like it). You don't have the same opportunity so planning in advance is the order of the

The idea is to try to box off the computer's line while being sure of staying out of trouble yourself. The program helpfully points out at the end of each game how often you have failed to do it.

And the name? Well 'Squonk' is actually just a word that Mr Gerrard happens to like and who are we to question the thought processes of a creative genius.

```
10 PRINT CHR$ (27)+CHR$ (48)::PRINT CHR$ (27)+"f":
                                                                                                                                                                                                                                  0E9B
20 clss=CHRs(27)+"R"+CHRs(27)+"H":PRINT clss
                                                                                                                                                                                                                                  0006
30 PRINT: PRINT: Press SPACE to start game."
40 as=!MKEYs: IF as=" " THEN PRINT clas; BLSE 40
50 a=PERK(64504!): RANDONIZE (a)
                                                                                                                                                                                                                                  1248
                                                                                                                                                                                                                                  0E03
                                                                                                                                                                                                                                  OA4D
60 DIN a% (90,32)
                                                                                                                                                                                                                                  0460
 70 a5="dulr":xo=30:yo=10:mo5=MID5(a5, INT(RND(1)*4+1), 1):GOSUB 440:PRINT CERS(187);
                                                                                                                                                                                                                                  1001
80 x=45:y=16:dir3=NID$(a$, INT(RND(1)*4+1),1):GOSUB 420
                                                                                                                                                                                                                                  1146
90 PRINT CHR$ (188):
                                                                                                                                                                                                                                  05.45
 100 as=INKEYs: IF as="" THEN 200
                                                                                                                                                                                                                                  073B
110 IF as=CHR$(1) THEM dir$="I":GOTO 200
120 IF as=CHR$(6) THEW dir$="r":GOTO 200
                                                                                                                                                                                                                                  OBES
                                                                                                                                                                                                                                  0008
 130 IF as=CHRs(31) THEM dirs="u":GOTO 200
140 IF as=CHRs(30) THEM dirs="d":GOTO 200
                                                                                                                                                                                                                                  0047
                                                                                                                                                                                                                                  OCE2
                                                                                                                                                                                                                                  036C
 150 0000 90
 160 ok=FRE(""): IF dir$="u" THEN 380
                                                                                                                                                                                                                                   099B
 170 IF dir$="d" THEN 390
180 IF dir$="1" THEN 400
190 IF dir$="r" THEN 410
                                                                                                                                                                                                                                   063E
                                                                                                                                                                                                                                  0630
                                                                                                                                                                                                                                  0661
 200 a=0
                                                                                                                                                                                                                                   0100
 210 IF INT(PRD(1)#100+1)>99 THEW 300
                                                                                                                                                                                                                                   0A20
200 IF INSTANCE AND NOT THEN 300
201 IF NOT AND NOT THEN IF ASKED, NO 101 THEN YOUNG. 1000 360
200 IF NOT AND NOT THEN IF ASKED, NO 101 THEN YOUNG. 300
200 IF NOT AND NOT THEN IF ASKED, NO 101 THEN YOUNG. 300
200 IF NOT AND YOUNG THEN IF ASKED, NO 101 THEN YOUNG THE YOUNG THEN YOUNG TH
                                                                                                                                                                                                                                   1752
                                                                                                                                                                                                                                   13F5
                                                                                                                                                                                                                                   1685
                                                                                                                                                                                                                                   1402
                                                                                                                                                                                                                                   17CB
                                                                                                                                                                                                                                   130E
                                                                                                                                                                                                                                   1793
                                                                                                                                                                                                                                   12F8
300 IF dirs-"1" THEN mos-"r"
310 IF dirs-"r" THEN mos-"1"
                                                                                                                                                                                                                                   0755
                                                                                                                                                                                                                                   0769
 320 IF dir$="u" THEN mo$="d"
                                                                                                                                                                                                                                   076A
 330 IF dirs-"d" THEN mos-"u"
                                                                                                                                                                                                                                   0739
 340 a=a+1:IF a(2 THEN 220 ELSE as="udlr": mos=HIDs(as, INT(RND(1)*4+1),1)
                                                                                                                                                                                                                                   14D6
 350 IF a(20 THEN 220 ELSE PRINT clas; "I crashed! Disaster!": human human+1: GOTO 450
                                                                                                                                                                                                                                   2027
 360 GOSUB 440: PRINT CHR$ (187);
                                                                                                                                                                                                                                   OAES
 370 GOTO 160
                                                                                                                                                                                                                                   0347
380 IF y'1 THEW y=y-1:GOSUB 420:GOTO 90:ELSE y=30:GOSUB 420:GOTO 90
390 IF y'30 THEW y=y+1:GOSUB 420:GOTO 90:ELSE y=1:GOSUB 420:GOTO 90
                                                                                                                                                                                                                                   1844
                                                                                                                                                                                                                                   184D
 400 IF x>1 THEN x=x-1:GOSUB 420:GOTO 90:ELSE x=88:GOSUB 420:GOTO 90
                                                                                                                                                                                                                                    1842
 410 IF x<88 THEN x=x+1:GOSUB 420:GOTO 90:ELSE x=1:GOSUB 420:GOTO 90
                                                                                                                                                                                                                                   1846
 420 IF at(x,y)<>1 THEN at(x,y)=1: PRINT CHRs (27)+"Y"+CHRs (32+y)+CHRs (32+x); : RETURN
                                                                                                                                                                                                                                   1 B6 B
 430 PRINT clss; "You crashed! Ho ho ho!":computer=computer+1:GOTO 450
440 a%(xo,yo)=1:PRINT CHR$(27)+"Y"+CHR$(32+yo)+CHR$(32+xo);:RETURN
                                                                                                                                                                                                                                   1940
                                                                                                                                                                                                                                   1602
 440 ak xo, yor-iirkimi Cassarri i canada at you human me computer
                                                                                                                                                                                                                                   1BE8
 460 ERASE a%: DIN a% (90, 32)
                                                                                                                                                                                                                                   0606
 470 PRINT: IMPUT "Another game (Y or N)",y$
480 IF UPPER$(y$)="Y" THEN PRINT cls$: GOTO 70: ELSE PRINT CHR$(27)+"e":END
                                                                                                                                                                                                                                   0F70
                                                                                                                                                                                                                                   185R
```

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Do the twist

You can easily double the life of those expensive carbon ribbons. Only the top half gets used, so by reversing the film you can use the lower, unused half.

Take the work out ribbon and release the catches which hold the top of the casing in place. Gently prise off the top using a pocket knife or flat screwdriver. Keep the casing as a whole upright during this procedure. On opening the case you'll see the ribbon bunched up in the middle. Refore removing the ribbon, take note of how it is threaded through the cogs and out of the arms on the left and right. On the right you will see that the ribbon passes through two cogs after it has entered the case. The rear cog is spring loaded: push it backwards and lift the ribbon free. Now simply tip the ribbon out onto the table Take a length of ribbon and thread it through the arms and the cogs as noted before. The shiny side should face inside, ie. threading the ribbon through the right hand arm. the shiny side should face left and vice versa. The used up part of the ribbon should be lower than the unused part. You will now have a length of ribbon threaded inside the casing, through the cog wheels and out through the arms on the left and right. The mass of ribbon still lying on the table. Now replace the top of the casing.

top or the casing.

Finally, wind the remaining ribbon into the casing by turning the knob on the right. Do this with one hand, use the other to feed the ribbon, to make sure it goes in

Once all the ribbon has been wound in and the loop begins to advance as normal, replace the ribbon and there's another fiver's worth of clear crisp printing!

Fabric ribbons come with a twist to make them one-sided Mobius strips. They 'turn over' automatically and both halves get used anyway, so you can't do this to a fabric ribbon.

Ted Alkins, Hull, Yorks

Ishbel Kargar, Ormskirk, Lancs, and others

Down in the dumps

Two tips for Logo fans. For printing out, typing tests will clear the textlines at the bottom of the split screen without affecting the diagram. Also, typing [ALT] (and then 0 (zero, not 0) will clear the 'Drive is' message prior to a screen dump.

Robert Samuels Cambridge

TIP OFFS

Advice so valuable even loadsa money couldn't buy it

LocoScript driving you loco? Mystified by Mini Office? Desperate about your DTP? You've come to the right place. Loadsa tips, loadsa inside info.

Know a few tip syourself? Don't keep them a secret - tell us at TipOffs, 4 Queen St, Bath, BA1 1EJ. The best tips win 250 Plastering his walls with used fivers this month is wily scouser RJ Osborne for his marginal tip. Loadse money, ha half!

Top form

Form filling is an ideal job for the PCW. You can set up a TEMPLATE.STO with all the headings and then just fill in the details (name, address etc.) in a new document as required. You can use LocoScript's effects to make it look really professional putting the headings in bold incl, for examaple, and the entries in plain text.

Unfortunately the unit markers only enable you to jump to the beginning of a line, which isn't what you want on a form. You want to jump straight to the beginning of each space to be filled in.

An easy way to do this is to set up your TEMPLATE.STD so that there's an asterisk (or any little-used symbol) at the beginning of the slot for each item of information. You can mark out boxes each of depth one line in reverse video to make it clear where the information is to go. You can stack these boxes on top of each other if you have multi-line entries (eg. addresses) to make. The business of making the forms thereafter is made very easy.

Make up a TEMPLATE.STD as follows. Set up the layout ([f2] in Loco 2, 'New layout', [f2] in Loco 1, 'Brand new layout') so that there is a tab set at the beginning of each

box and a tab at the right-hand end. There should be none in between. If you want to have different widths of box for different entries you will need different layouts for each.

Write the heading (Name' etc.) at the left margin, then press [TAB]. Press [+]EV and [TAB] again followed by [-]EV. You will mark out one strip of reverse video. End with [RETURN]. If you want a multi-line box repeat this process for as many lines as you want.

When the form looks as you want it, save the TEMPLATE.STD. Now every document you create has the form ready set up. To jump to each new line to be filled in, press [FIND] and the first time you

do this give * as the thing to be found, followed by [ENTER]. Thereafter just press [FIND] [ENTER] to jump to the next slot.

Type in information as required and remember not to press [RETURN]—the [FIND][ENTER] effectively takes the place of that of course the reverse video only shows on screen and doesn't print out. To take out the 's from your final document, press [EXCH] and just move the cursor down to 'automatic exchange' followed by [ENTER]. All the stars are stripped

Paul M Brown Maldon, Essex

A group 0 Layout Stractions	FIENFLATE STD 1 Pt12 LS1 F2=Layout	Edition to 2 Con 129 Factor 557ap 1757ap 1755all	line 12/54 tigns EXII
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Marginally better

Notes in the margin of a document have a variety of uses - summaries, section headings etc. In Protext this is easy - you just write your margin note under a suitably narrow-margined ruler line then use the 'box' insert facility ([ALT]B) to cut this box out and paste it into the appropriate place in the main part of the document. In LocoScript the problem is you can't get this multi-column facility, so adding notes always involves

compromise. Section headings are easy: a clear case for [ALT][TAB]. Set a tab stop where the left hand margin of the main text is to be and then, after typing in each section number, press [ALT][TAB]. This aligns the left edge of the subsequent paragraph with the tab position as required; of course any further unheaded paragraphs will need to begin with an [ALT][TAB] too.

Margin notes which go over one line will really have to go on the right-hand side of the text.

Marginally better still Here's one way of putting margin notes into a document such that

you can have your main text justified if you want. First type the main body of the text with margins set at, say,

10 and 60. When you're sure it's OK save and exit and make an ASCII copy of it ([f1] in Loco2, [f7] Loco1). Call the new file

anything you like and put it in any group but make you choose the 'nane image' ontion

Then create a new empty document and 'Insert text' (ff1) in Loco2, [f7] Loco1). Move the cursor over the ASCII file just made and press [ENTER] a couple of times. You lose all the italics and bolds and fancy characters, though you can put them back later on.

You see the document you typed in appear on screen with spaces at the left-hand side and [RETURN]s at the right. Put the cursor at the beginning of the document and press [f2] for a 'new layout'. Put the margins at 0 and 80 and a tab at 64. [EXIT] back to the main document.

Now go through the text and insert the margin notes by going to the end of the line in question ([EOL]) and pressing [TAB]. Type in the first line of the note (don't press [RETURN] at the end, just [EOI] to move down) making sure you don't go over one line. Repeat for each line of the note. Those returns keep the main text straight. You can change the margin settings if you want wider notes and narrower text, and the notes can go in 17 pitch to make them look smarter. Of course editing the notes or the text of the document after you've set it up will destroy the layout, so put your margin notes in at the very last minutal R J Osborne

Pitton, Salisbury



More efficient Office

Wouldn't it be nice if you could select those options from Mini Offices various menus with single key presses instead of cursors plus-[ENTER], just like you can in LocoScript (where you can immediately select 'Save and Print' from the document exit menu, for example, just by pressing P). Well, vou can!

All you have to find out which key press actions which option is to press (SHIFT)(+), Letters suddenly appear beside each option and pressing the appropriate letter selects that option.

You can put this to use in your PROFILE SUB file. Suppose you have made a database startup disc with Mini Office's DBASE.COM and OFFICE.COM thereon, and always start off by loading the database (which can be achieved just by pressing p) then loading up a file. Your PROFILE.SUB can contain those lines

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which will put you all ready to type in the name of the file to load. Martin Punch London



Power up vour Protext

One of the few ways in which Protext is slower than LocoScript is in the use of print codes. Instead of [+] I to set italics, as in Loco, you press [ALT]XI in Protext. However, it's only a matter of five minutes' work to redefine the [+] key so it duplicates [ALT]X in one push. making Protext codes just as fast as LocoScript. The only condition is that you'll then have to use [SHIFT][COPY] to set the block markers instead of [SHIFT][+], but that's more logical anyway.

First load your Protext startup disc and then load the 'config' file file from side 2. Select 'Setkeys for PCW' from the opening menu. Type in 23 and you'll see a number of columns; the ones we want to alter are the HEX codes, so press [TAB] and this puts you into them. Under the columns marked N for normal and S for shift, type 18 over the present codes. That's all there is to it! Press [STOP] twice to go back to the config menu and put your startup disc in the drive. then press 9 to save

Another thing you can do

if you miss LocoScript's helpful automatic formatting is to include in your EXFILE the line KEY V 218^^6^ and then every time you press the [f3] key, Protext will automatically format the paragraph you're working on. Or you can just

type in the line in command mode to set this up. That ^ character is [EXTRA]U or [EXTRA]; and you can execute your EXFILE with **IEXTRAIJENTERI** David Griffith

London

Set keys for PCM8256/8512 Key number : 23 ili - 11

Printer's working

Printers which have been in service a year of who lose traction and paper starts to slip as it's being fed in due to roller shine? A solution to this is to take a rag and some methylated spirits and clean the roller. The meths won't attack either the roller or the plastic casing. A surprising amount of black stuff comes off but eventually stops, when your roller should be back to tit so more off but eventually. Prof. DR Wikkle London

Layout your copy

You can put all sorts of things into phrases in LocoScript including

codes. For example, changing layouts can be speeded up if you copy a phrase such as (+LayouT1) into 1 (put the cursor before the code, press [COPY], move it to the end, press [COPY] again followed by i.). Then to insert the layout 1 into a document you just type [PASTE]1. You can also include carriage returns, tabs and so on.

You can also use this for any set of instructions used frequently—for example underlining from the position of the cursor to the end of the page is achieved by the sequence (+LL)(+RA)(+LL) (in Loo 1). This can be copied as above into a phrase under L say Then Potage Lorent Land Lorent Lorent Land Lorent Lorent Land Lorent Lorent Lorent Land Lorent Lo

Office Directory

When you've got Mini Office in Load or Save mode, or of course in 'directory' mode, you have a directory of all the files on your disc. If you do a screen dump ([EXTRA][PTR]) the result, when trimmed to size, exactly fits the standard plastic disc case, giving you a quick way of making up-todate disc labels. Mary Turner Dartmouth



Desert Island Tipoffs

The weekend starts with Friday – but who needs a Friday when you've got a PCW? A miscellary of one-line time-saving tips to keep your weekends free on your paradise island...

Erase a laugh
 Ever had the problem of wanting to erase all 33 files on that disc except one? Instead of typing 32

LocoScript? You don't have to. Suppose you're exiting a document, a menu appears giving you those options to Finish edit, Save and Continue, Save and Print, or Abandon edit. Press A and you jump straight to Abandon edit, se takes you to save and Print, etc. This works for all menus.

TO STATE OF THE PROPERTY OF TH

erase commands, just type ERA
.(C) (you'll need a disc with
ERA.COM on it in the drive;
alternatively, copy ERA to the
memory with by putting your
systems disc in the drive
and typing PIP M:—ERA.COM and
type M:ERA in place of 'ERA'
above).

The PCW will delete all files but will ask you to confirm each erasure with a Y or N; type Y for all the ones to junk and make sure you press N for the ones you don't!

2. Quick menus
Fed up of using the cursors to select menu options in

3. Run faster

How do you run a BASIC program called say SAM.BAS from CPM?
Easy, just type BASIC at the A> prompt, then when the 'Ok' prompt comes up, type RUN "SAM. But you can do it faster — back in CPM, type BASIC SAM and the program runs as normal. When it's finished you're returned to the A> prompt.

4. Stopping and starting

Ever wanted to stop a CP/M application, such as PIP, or a BASIC program, in midstream? If you press [f5] your PCW takes a

time out until you resume with [f3] (or stop with [STOP]).

5. How low can you get Sometimes the above tip doesn't work (with, for example, games like TETRIS). This is because the program works at a "lower level" than the [15] kay. The [PTR] key is lower still, and if you want to pause for breath in your TETRIS game, just press [PTR] and then [EXTI] to resume.

6. At your command

You can string a series of commands in CP/M together if you separate them by an exclamation mark. If for example you want to copy some files to the memory, then run BASIC, you can just enter the line PIP MI-ARBIGETER, DOCTPIP MI-ARBIGETER, DO

means that you'll have to keep jiggling the page numbering to make the third document follow on from number two and so on after you've edited number one and so

The quickest way of finding out how many pages a section has without actually editing it is to press P for print, select the 'print some pages' option, and note what the lastpage in the document is. You can then press (CAN) to abort the command and set the page number of the next document abort the document abort actually the page number of the next document abortopriately.

8. STOP before you start

Often you want to start CP/M up to get to the A> prompt but the only disc to hand has a wretched PROFILE.SUB on it which will reel off a series of fifty commands. All you have to do is press the

Dpip mi=aibasic.com/mibasic

Dmibasic

Mmibasic

Mmilard-00 BASIC with Jetsam Version 1,29
(c) Copyright 1904 Locomotive Software Ltd

Bil rights reserved

31597 free bytes

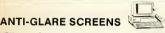
Ok

7. Loco 1 countdown
If you're using LocoScript 1 to
write long documents you will be
storing them in small chunks. This

[STOP] key a few times when you see the opening messages appear on the screen and the PROFILE.SUB won't run.

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These pages provide a comprehensive guide to the Amstrad PCW software. Published in three monthly parts, this time it's the turn of Databases, Education, Communications and Programming packages to face the ultimate test. We've set out to cover every important plece of software we could lay our hands on, and to give you enough Information to decide whether they are suitable for you.

The software listed here represents what we consider to be the best of the many programs available. As well as a brief summary of what they do, the main Plus and Minus points for each program are listed – Pluses have a □ by them, and Minuses a ■. Those we think are particularly noteworthy have a flash on them.

To the best of our knowledge, all the programs here should run on both 8000 series machines and the 9512.

DATABASES •

There are broadly two different types of database, and which suits you best depends, of course, on what you want it for, Firstly there's the simple card index

substitute. For many home users, this will be the kind of thing you want - all it does is store your address book or stock items so that you can easily look them up.

more sophisticated option is the programmable database. With these, in addition to allowing simple card index retrieval there is a command language which allows you to analyse the data on the cards. For example, you could automatically add up the money owed to you by all your customers from Yorkshire. To make best use of this kind of facility, you will need to be able to understand a little programming, although it's not too hard really.

A bit of jargon now. A database is said to consist of records - this is just like a card in a conventional card file, with all someone's details on it. Each record is composed of fields - a field is a single entry on a card, like someone's name, or age, or postcode

The thing that makes a database special is an index. You might be able to hold your address book as a simple list in a word processor document, but if it gets large then this becomes unwieldy. An index means that the database has worked out which order records should be in, so it can go straight to the one you want without looking at lots of others first.

The field that you use as your index (e.g. someone's surname) is said to be a key field and can be looked up very fast compared to

"non-key" fields. A good database will allow multiple keys, meaning that it can look up data just as fast for a variety of types of information.

MASTERFILE 8000 £49.95 • Campbell Systems • 0378 77762/3

A specially minimar (EV) in retror of the successful disagrees to order featured recognises. (Bit is) and controlled disagreed and makes grow use of the (EV) is special some prefer by the feature of the special some special sp ally written PCW version of the successful datase

Can do anthmetic calculations within its records Capacity limited by size of M drive - best on an 8512

Takes a while to learn all the features

ATLASI £39.95 • Rational Solutions • 0566 81511

Recordly released revised version with new manual and a new price. Attest Plus is a full featured distance that is excellent years for a secondary value for more, if other into a fundor dat with much better reporting accident, and ear sort log. You click go simple statistics of columns, but not general intrinsie on letters in secretal its claims to be a true insting of distances into design and a little grandous, but a good previal purpose distances. recommended
PLUSES MINUSES

Good screen adding facilities Constants enable insertion of repetitive data. Good on storage space.—ideal for 8256 owners Handles names and addresses well.

Still no arithmetic calculation in field

Setting up the database is at first confusing. – function of 'SYS' file unclear all is better than the old one but could be further

improved for beginners.

MINI OFFICE PROFESSIONAL £29.95 • Database Software • 0625 878888

Man Office in a surie of leve importante programs — database, we obtain the processor sprindentiale programs model and commiss parallyles. The database is a province stand of large land commission of the program of the program of the large e must all be re-entered. No export either PLUSES - MINUSES

Easy to use and intuitive Can use the data in the word processor

Powerful selection and sort facilities

Arithmetic on fields "Test print" facility lets you check your labels will print OK

Can make global changes, ie. change '£3.50' to '£5' in all records with one command

Can't import or export data Manual is of very little use

CAMBASE £49.95 • Camsoft • 0766 831878

Cambase is very strong on data security - you can define passwords to protect sensitive databases. It is driven by quite an intricate set of menus, and you'll have to plan your application carefully since the database format can't be changed once set up. Generally good for writing applications with PLUSES • MINUSES

ve data can be protected by a password sys

Record structure can be conditional – e.g. "only have a "spouse" field if status is "married"

Processes" provide for some simple automatic calculations Over-protect ve user interface, which asks for confirmation of almost every command

Database main attributes are fixed after initialisation and can't

74 8000 PLUS

THE GOOD SOFTWARE FILE

Doesn't have full screen editing of records

Manual needs an index, and is weak on explaining advanced

The (single) key field has to be entered separately to the

DELTA

£99.99 · Compsoft • 04868 25925

Oria is another of the hearyweights, like dBase II and Condor, bulgets here is fully menu driven. Although the screen type for fully hobble, there is a fer fully truck. Tayout as you total have to sweat at Jefathing your own. It could use batter wear indiaring full-like. Plantously good for within special control, driven fully good for within assistance, driven you have ploughed through the large manual of ISBs. Julius 25.

PLUSES - MINUSES USES - MINUSES

Records can contain up to 90 fields: plus groups of fields that may be repeated.

Screen layout can be user defined, or "quick" mode used.

Single-page letter writer provides detailed mail-merge Processes can be defined, and run from user defined menus,

for ease of use by others Very full and mute readable, manual Only one field may be used for indexing

Very big program - a PCW8256 would be hard oushed

POCKET INFOSTAR

69.50 · MicroPro/DRA · 0386 841181 Consists of two large programs, DataStar and ReportStar (both available independently). DataStar is a conventional database wit screen card layout and indexing. ReportStar then generates the printed output, either from DataStar or CalcStar hies Powerful if you can use them, but the suite is hornfically omplicated, and the documentation just inco PLUSES - MINUSES

DataStar is a quite good database with indexing and

calculated fields Transaction processing' feature allows cross-referencing of

Can be integrated with other Pocket products, eg WordStar Can take up to 255 fields per record

volume manual set is very badly organised There are separate programs to run for form design, data ry and reporting

Operation is all by obscure command keys, a la WordStar

CARDBOX-PLUS £99.95 • Business Simulations • 0892 863105

Business Simulations are the company who actually wrote the successful Cardbox database, and they are the sole distributors of their enhanced version Cardbox-Plus, Disappointingly, still no held lotalling facilities, but it does boast sorting, index listing. dec management and an autosave feature as extras to Cardbox. The ultimate straight card index, if you have the

All the facilities of the very successful Cardbox Cards can be sorted into order for browsing and print

Autosave" will regularly store the data to disc in case of nishap

Files created by Cardbox can be read Full and good manual, although the tutorial is at the end Still no way of performing numeric calculations. A lot to pay for a few frills to the basic Cardbox

CHIBASE £49.95 • Chiasma • 06333 60996

A free format database, which means you don't have to go through the usual rigmarate of delining your record forms before you can enter your data. Instead, you just type text into Choase, mark the words to be indexed, and it can then treat that life as a ristabase

PLUSES - MINUSES

pesn't require you to set up a preset 'record' card Searches through your data very quickly Allows you to select up to 50 keys for each page of text Allows editing of text without a word p

DBASE II

£99.00 · Ashton Tate/First Software · 07357 5244

The WordStar of database nackages. Recently licensed

Change if for Amendar mechanic distance that is fasted between or business companies of a few evidences of memory of a few evidences of memory of a few evidences of the few evidences of the service of

Indexing facility makes large databases fast to hail Can handle very big databases. The data can be farly easily affered after its entry Manual is daunting (but there are plenty of indepe books on the market).

For an expensive package, you still only get 32 fields per

Generally unfriendly unless you have some programming

FT=DB £29.95 • Encyclasoft • 0270 811868

A free form database like Chibase, but instead of typing your hite form database itself, you create it on a wordprocessor first of all. Once done and edited to your liking, you mark all the words you want to be used as keywords (still in your word processor) and then read it into FT=DB. Now you can treat it as a database, compile indexes, search for phrases and so on, all DI LICEC - MIMILICEC

Easy to use Versatile retrieval system over several text files

Can move between index and text at will No editing facilities within FT=DB

FIRST BASE £29.95 · Minerva · 0392 37756

Billed as a simple distablisse for the first prijeruser. First Base is quite a competent Cheap card rider. The mailual is computer printed, and weak on disagense which doesn their througs. One weakness is grifting purples insults out of First Base — other yo senter for crude is, so if you have be differed a remplate in LocoScript which is anxietized by Bid overall, for sample applications and beginners. If so riving good value for money PLUSES - MINUSES

Can after the index field at any time Simple to use screen editing makes data entry easy Good value as a simple card index lookup system Can easily browse through the database picking out a set by

Manual is badly laid out and generally difficult

Producing printed output is awkward

SAGESOFT RETRIEVE £70 · Sagesoft · 091-284 7077

A high-power package that is relatively easy to use w password security if desired, calculations, automatic counting or deletion of sets of records satisfying given conditions. It also has sophisticated sort and select commands, and change the structure of an existing database. All this is done by a set of commands rather like a programming language Printed formats are rather limited though and the program insists on using both drives, making use on a 8256 impractical.
PLUSES • MINUSES

Easy to use for a powerful package Advanced sorting and selection commands Subsets can be written to files
Can count or delete subsets with one command

Labelling/mailmerging routines included Can change structure of existing database Impossibly big program for 8256
Printed output limited – must use mailmerge

MICROFIL (Sold in The Micro Collection) £49.95 • Saxon Computing • 0401 50697

Microfile is a well implemented simple database, driven by plenty of menus and on-screen prompts. It's fast and has good screen control, although it has some size restrictions. Microfile comes as part of a software suite. The Micro Collection - which is good value (Microfile, Microwrite, MicroSpread, Flexilabel and

PLUSES - MINUSES competent word processing, spreadsheet,

ing and encryption program Plenty of menus and on-screen prompting Very flexible formatting for screen layout and printing Numeric fields can be expressions to be calc Indexing is fast and can be on several fields Maximum number of fields per record is only 20 Limited facilities for totalling up fields in a database

SMARTCARD £59.95 • Focus Computers • 0272 420109

A conventional card index database which is now the nearest thing available to Cardbox. Small and fast, you can sort the records index up to three fields and do simple arithmetic in fields. Can't put background text (eg. titles) on records or

PILISES - MINUSES Good clear screens Plenty of onscreen help

Fast and high capacity

Fasy to use

Can't put background text on printed reports No way of exporting data for mailmerge

DATASTORE II £39.95 • Digita • 0395 45059

Anomer standard database, written in BASIC and using Mallard's famous JETSAM commands. Is therefore slow in some parts though version 2 is considerably faster than 1. Simple to use, has calculation facilities and a good control over the printe gutput - your printouts can be made to look very impressive dulput – your printouts can be made to look very impressiv You have to set the maximum number of records you want before you start, which is tedious, and browsing is slow PLUSES · MINUSES

Good range of print format commands Simple to use

Calculation facilities – OK for accounts use
Nice touches eq. text automatically adjusts size to fit printed

Must set max, no of records on setting up database Only two print formats per database Slow at browsing through

FILE MANAGER £99.95 • Sandpiper Software • 0978 355333

A database with the newer to bandle full relational applications Unfortunately the manual is so badly written that the power is hard to get to For the money, there are better systems around PLUSES - MINUSES

Potentially a powerful and flexible system RAPID' generator can produce simple files quickly Appalling manual

Poorly customised for PCW use The full system is very complex to use

HOMEVIEW £195.44 • Cavalier/Load & Run • 0322 72116

alist database for the Estate Agenting business. Costs a lot, but then all you estate agents should be able to afford it from your outrageous commission fees (yes, the 8000 Plus staff are all about to move house). You energy required area, no of bedrooms etc. and get a list of suitable vendors or buyers. Works well PLUSES · MINUSES

Once set up, simple enough for non-computerate staff Makes up mailshots from LocoScript

Can adjust property categories to suit

mpresses your custo There will always be clients whose requirements don't fit your



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- guides you along Very full on-screen information guides you along 'Fast' option outs out some text if it gets repositive Not particularly imaginative use of graphics
- a Indocen't plways ensure that the cursor is properly aligned

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specifically caters for people who can already get by on layboards with two lingers. You are gradually introduced to buch typing on your speed doesn't drap while you learn. Fills a the Typing Tutor market PLUSES . MINITES

- Sutable for improving two-finger typists without much drop in
- Full on-screen instructions
- Exercise material is interesting text, not letter drills
- Explanation text is annoyingly verbose in so It doesn't always ensure that the cursor is properly aligned

GIANTKILLER £14.95 • Topologika • 0733 244682

Buanstalk Lots of intriguing puzzles which should stimulate any student up to GCSE standard. Not the best adventure game ever written but great for making mathematics fun!
PLUSES - MINUSES

- Puzzles plausibly integrated into scenario
- rogression of game is simple and well defined Puzzles introduce a lot of valid mathematics
- rogram understands only very simple commands
- Saving a position takes a move can be fatal be of particular bein in exams

ANIMAL VEGETABLE MINERAL WORLD WISE £14.95 each • Bourne Educational • 0794 523301

Aimed at the younger market, 7-15 year olds. Both these programs work by learning as the child uses them. Think of an object and the computer times to guess it. If it is wrong, the child is asked for a question which would allow the PCW to be night

next time, and it learn PLUSES · MINUSES

Can be used as many times as the child's imagination holds Performance can be analysed by a teacher after a session

- As you build up a base of objects and questions, they can be It needs a lot of typing, bence a lot of supervision
- The PCW starts with only two objects known, so it takes time tation has hardly been altered from cassette-based

Since it is for young children, more imaginative use of the streen would be nice

BETTER SPELLING £12.95 • School Software Ltd • 010 353 61 27994

This is a spelling course aimed at the 8 to adult age group. It consists of a series of well organised, short lessons e

dealing with one topic, like plurals or which version of there they they're to use in a sentence. The use of the PCW screen is rather unimagnative, and doesn't hold your attention. DI HEEC . MINHEEC

- Wall thought out lessons to emphasise particular points
- Lessons can be picked in any order from a menu. Seems to be proof against mischievous key pressing
- Boring use of the screen doesn't grab interest uctions come as to how to use the program.

CHEMISTRY · BIOLOGY £12 95 • School Software • 010 353 61 27994

These two are fairly traditional question-and-answer tests. You am faced with a choice of 10 topics, and then seked 10 or en questions each, where you have to fill in the blank in a

statement. There are preamble notes beforehand, and if you get it wrong you are given PLUSES • MINUSES en a clue. Aimed at 12-16 year olds Questions would challenge a GCSE pupil well

- Proamble notes introduce tonics The fill-in-the blank questioning style has little flexibility for
- different answers No option to add questions for a specialised syllabus Some careless errors, like incorrect facts and hard to decipher chemical formulae

MICRO MATHS £24.95 • LCL • 0491 579345

Supposedly covering 8 to adult ages, this seems an O-level type supposedly covering and adult ages, this seems an O-well type program covering topics from calculary to tables. A good implementation on the PCW with properties of the screen Cuessions are picked in androm from a good, so may repeat but never run out. Replies to questions are typed in mathematical.

- You can pause to use BASIC as a calculator while you think
- 'Unlimited' question set Comes with a 'free' book book of AEB Q-level guestions
- Good hints and explanations when you get an answer wrong Questions in a topic repeat occasionally

Some falls, like the clock and beener, are announ

AMSTAT 1,2,3 AND 4 £30-ish · Coleman · Ashby-de-la-Zouch LE6 5DA

A suite of four statistical routines including a business analysis program, forecasting and resource management, Individua prices range from £27,95 to £39,95, all four cost £99,95 Sophisticated but pen PLUSES - MINUSES

- Good range of statistical functions
 - Good manual Can produce fair quality graphical results
- Some editing procedures very long-winded
- Needs some expertise to use properly

 Weak on checking that input data is reasonable.

OXSTAT £113.85 · Medstat Ltd · 0602 411120

This is a energalisari statistical analysis narkana for the PCM Functions from calculations of means to multiple linear regression are covered, and it can do some rudimentary graphics for results. You can read data from spreadsheets or evternal devices

PLUSES · MINUSES

- Comprehensive range of statistical functions implemented Good screen editing facilities for entry of data The speed seems acceptable, even though it is written in
 - Even complex analyses are easily entered by simple menus Weak on graphical presentation of results

YES CHANCELLOR! £14.95 · Topologika · 0733 244682

economic simulation program. Instructive and fun to use, you type in your annual budgets (tax rates, public spending etc.) a see your popularity plunge and the economy crash. Great for aiso an amusino game in itsei

PLUSES - MINUSES

- Simple but effective model of the economy Comes with booklet explaining economic principles
 Great for teaching economic and political pragmatism Can get borng as a game
 You can't adjust the model of the economy, so it can be too

COMMUNICATIONS

Communications is one of the alittering areas of computing, gurus would have you believe. It can provide a fascinating hobby for 'hackers', but more importantly it is a valuable business tool

Electronic mail' is just what it says: you use your PCW to send messages, which can be documents' thousands of words long, to others on the electronic mail system. The best known system of this kind is Telecom Gold, which also allows you to send telexes. Another major system is Prestel, which is more of an information provider - you can read share prices weather information and other news direct from your phone line.

For any professional service, you pay a registration fee, plus a connection charge typically around 10p per minute you use the system. Of course, your phone bills are extra. For hobbyists there are also 'Bulletin boards'. which are effectively a kind of private electronic mail system run by a system operator (a 'sysop' to those in the know).

To use any service, you will need to buy a modem and an interface. A modem allows you to send computer signals down a phone line, and the interface gets the signals from your PCW to

your modem. The pair will set you back £200 or more. Once done, you need some software to allow you to send and receive data, and it is this software reviewed below.

Electronic mail services just send strings of characters to and fro, whereas Prestel is a 'Viewdata' system, meaning it sends pictures and graphics too. Software needs to do more to receive Viewdata graphics, so if you want to use Prestel make sure your software is up to it.

8256UKM7.COM Public domain (ie. free!)

P.D. software documentation is often poor but this program has an above average document file. UKM7 was written to support ASCII file transfers using error correction and as a dumb terminal either for use over the phone or between two Amstr Between two PCW's file transfer is possible at a staggering 31,250 baud which is even faster than PIP! Easy to use for beginners and better than KERMIT, UKM7 provides a cheap and excellent way to communications after you've got fed up with the PCW's MAIL232 8256UKM7 is available from the Public Domain Special Interest Group, or most bullatin boards PLUSES - MINUSES

Cheap! (the price of a phone call) Easy to use, and helpful menus

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Russian roulette

Incertly purchased a copy, which was supplied on 180k disc, from which I made a start of day disc which booted CPM Plus, using the 800 copy routine, and made it autorub y including SUBMIT.COM and a suitable PROFILE SUB. When I attempted to load this disc into my PCW 9512 after a few moments it beeped and displayed the message "WARNING.

Nothing daunted, I cleared the computer, loaded CPIM and then attempted to load from the supplied disc. This time I received the message, "This DISC IS AN ILLEGAL COPY" which was accompanied by a locking of the keyboard, so that the only way to clear the computer was to eject the disc and switch off.

I returned the program to my dealer, who tried it on an 8000 series machine, and it ran with no problem.

Perhaps you could also explain why some games will only work on the 8000 series machines, as both these and the 9512 use CP/M, the use of a DMP is not involved, and the 8000 copy routine allows the



"ME? - I WAS CAUGHT WITH A PIRATE COPY OF TETRIS"

conversion of 180k discs to 720k format. Peter G Bell London

8000 Why Tetris doesn't run with a leg. PROFILE SUB file we've no idea in fact, why it doesn't run on a sold like many other games) leaves us mysified as well. Our review copy worked ine on ours, but it was a pre-production version without copy protection; obviously

POST SCRIPT

A glut of glee, gloom and glowering glossed over by a glassy-eyed Ed.

More comment and criticism on vital matters of the day. Under perusal this time are printwheels, piracy, postal delays and portable PCWing. If you have anything to say about anything, this is your chance to be heard: tell us at *PostScript, 8000 Plus, 4 Queen St, Bath BA1 1EJ.*

the protection routine fouls things up. In theory arything which runs on an 8000 should run happily on a 9512 but this obviously isn't the case. Mirrorsoft say a 9512 version is coming.

Everyone knows that Tetris is a Russian game, but does anyone out there know what "Tetris" actually means?

Mini Office: The Case for the Defence

I would like to respond to last month's letters about Mini Office Professional.

As you can appreciate, the programming of this suite of programs was a formidable undertaking involving over 18 months work. Debugging the more than 300k of machine code was a major headache due to the complexity of the programs but we programs were free of bugs before were the suited to the programs were free of bugs before we released the package. However, as your readers have discovered, we failed to remove them all.

The majority of the problems referred to in your letters page were put right within one month of the launch in December 1987. Since then we have corrected minor problems as they have materialised, as well as enhancing the package to allow pulse dialing in the communications module.

To date we have sold in excess of 40,000 copies of Mini Office Professional, bringing the total sales of the Mini Office range to more than 400,000 units. We have received many letters from very satisfied customers, but we apologise unreservedly to those individuals who bought version 1.0

and found problems. Any reader who has version 1.3 or earlier can obtain the current version by searlier the packaging) the The Customer Services Department, Database Software, Europa House, Adlington Park, Adlington, Macclesfield SK10 4NP.

Looking at some of the other comments made by your readers, I would like to say that we thought long and hard about Drive M and decided that there were far more benefits if we used this area to allow users to work with massive spreadsheets (up to 320k in size on a PCW 8512) and long word processor documents (up to 336k on a PCW 8512).

The database module has been carefully designed to cope with the vast majority of applications, but addy it is not possible to extend the length of fields, nor is it possible on what possible on the possible on any database costing less than £200! When setting up a database structure it is essential to plan the field lengths and types very carefully before you start entering data, and we do make this quite clear in the manual.

Regarding some of the other comments by your readers, I will be writing to them individually to attend to their queries.

John Hudson

Software Development Manager Database Software

Copyrights and wrongs in PostScript (May 88) you state

that an owner of a 9512 can transfer their LocoScript 2 to their 8512. I hope you can tell me exactly how to do it as I've tried everything that I can think of and all I get is a message telling me my version of LocoScript is incompatible with my 8512. This hardly surprises me, as I'm too cynical to believe that Amstrad are giving away software that other people have to pay £20 for. Ketih Heron

Manchester

Sorry, this was a misprint in your edition, as Locomotive have pointed out to us. The phrase 'Yes' should have read 'No, and don't even that of the state of the

think of trying it mate, or you'll be breaking the licensing agreement, you aren't allowed to copy LocoScript 2 from your 9512 to your 8512 even if you own both machines and it won't work anyway'. Although there are obviously a lot of

pirate copies of any piece of software around. Locomotive have less to fear from it than most as LocoScipt 2 is extremely reasonably priced and has an excellent manual, so prospective pirates have no excuse for not buying it. Software copyright is a tricky thing and the moral situation is debatable, unfortunately the legal situation ain't.

Name and address withheld

I run a club of 'wrinklies' out in Spain. We use our PCWs for a variety of purposes including playing a lot of games. However, when we tried to copy Scrabble as you would normally lot on make a back-up copy, it didn't work. So one of our bright sparks said, if it's not a CPM program, maybe it won't copy under CP/M, so let's try LocoScript. We did

8000 PLUS 85

POSTSCRIPT

this, but the copy we got only displayed the message "*THIS IS AN ILLEGAL COPY*".

To make matters worse the old version wouldn't work either. We realised that (our eyesight) we'd used Move' instead of 'Copy' in LocoScript. So we copied the new copy back on to the old disc. We reloaded Scrabble and waited with bated breath... alsa, it loaded OK, but will go no further than asking us if we want to play a game continually.

We are all quivering in our shoes that we dare not apply to the makers of Scrabble in case we have done anything illegal which we have never done!

So, knowing what kind honest cating people you are, can you do something for us and get us another copy somehow without revealing our identities? And also can you please make an appeal for any software makers to mark clearly on the packaging that a disc is not to be copled, even for backup?

Anonymous

Spain

You've nothing to worry about, Mrs Wigginton. Scrabble distributors Virgin say they'il be happy to replace the disc so long as you send a covering letter saying how you honestly weren't trying to make a rip-off coor for your friends in Javea, Alicante.

Games are traditionally copy protected because the main market consists or because the main market consists or implementate minors who are thought more likely to give (or self) copies to all their tribrids. Serious' software such as spreadtheator of telephanes to copy protected, the users are thought to be obtain mature, and inches making their unlikely to capy such programs. Besides the program is often impossible to use without the, altern, clear and well-written manual.

But Virgin did agree that it would be a good idea to put something in the manual or on the box saying the disc is copy protected. If a few people write to them about it this might even get done.

Sub standards

Why have I had to phone your office four times to find out where my subscription copy of the magazine has got to? In nine months, two copies never arrived, although you kindly sent me another copy when I bought the matter to your attention, and the others arrived any time of the month from the first to third week. It is frustrating to see the magazine on sale in the shops while patiently waiting for your own copy to arrive.

As a subscriber I would have expected to have received my magazine before it appears in the



shops, or at least on the same day. This, surely, is one of the reason to taking out a subscription. "You get your copy right from the printers to your doorstep so no more frustrating searches for a newsagent who hasn't sold out! you say! Hall my experience, no newsagent would have the copy I wanted, it would have been returned unsold weeks ago. KJ. Panslev.

Broadstairs, Kent

8000 In theory the PO has six days in which to deliver your copy

appears in the shops. They won't ace appears in the shops. They won't ace around one and a half tomes of 8000 Pluss going out by post every month). Also, 8000 Plus has a very large number of subscribers 6000 - so statistically a few are bound to be deleyed every month. Regular delays cheart thrappen - in the past local sorting offices have been shown to be at fault.

Anyway, we're looking into the possibility of farming out our subscription mailing to a specialist mailing company.

Heavy sheet

loough Minl Office for what I hough was a simple spreadsheet application. I have a spreadsheet application. I have a spreadsheet with a number of rows, and I want to sort the data in ascending numerical order of the number appearing in the seventh row. I have written to Database Software and they say it can't be done though their advert likens their spreadsheet to SuperCale 2. Can you help?

Miss E MacMillan Weymouth, Dorset



There's no 'sort' facility on the spreadsheet. If only you could export data, you could write a simple BASIC listing to sort it for you - but you can't export data.

It's no use either employing PUT.COM to send all the printer output to a file and get the spreadsheet figures effectively exported by then printing them, as the file is corrupted by printer control codes. So it looks like you can't do it.

Exposed

From time to time I read pieces in your letters page about mail order suppliers not coming up with the goods, or, at least, taking a mighty long time to send them.

Can I ask you, some time in the Future, to do a little expose on the company with its special offers department based in some Old Barn in deepest Somerset.

If you take up this company's special offers, the goods never arrive because, they say, the Martians keep hijacking the Highlighter Pens or the Venusians keep snaffling the colour-coded disk labels!

When patience runs out (after two and three months) and you phone up, the charming young lady on the other end of the line always assures you that the goods will be sent off in the near Future (sic).

Is there any future for Future's future special offers or are they like tomorrow? There certainly doesn't seem much of a future in waiting for January's now that May is nearly here!

David Yates

Kingston-upon-Thames

8000
PLUS
So-called 'Old Barn'. A would-be spokesperson for the self-styled 'Special Offers', oh yes I don't think,

Special Oriers, on yes roon timink, department, wearing dark glasses and refusing to be identified, said: 'We ran out of pens and labels rather faster than we anticipated. Fresh supplies take eight to nine weeks to arrive, and we dispatched the latest lot yesterday – so Mr Yates should have his by now. Unfortunately we've just run out again, so if you've just ordered some, it may take a few more weeks.' She then beat up the reporter.

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Listing after something

I bought Mini Office for my PCW and have spent the last two months downloading a pitful handful of listings by trial-and-error using Microlink. I can type these listings to screen, view them, save them anything except run the wretched things!

On attempting to RUN the

programs I merely get a 'Direct command found' message. Please, what obvious stage am I missing? Mrs P Miller Glasshouses, Harrogate, Yorkshire

8000 'Direct command found' is the

PLUS message you get if you try to run a BASIC listing which has (surprise surprise) direct commands in if—ie. a line without a line number at the beginning. It follows that if you've saved the listing in such a way that long lines are broken into two, you'll get this message.

Try having a look at the listing in a word processor (in LocoScript, insert it into a blank document using 'Insert text'). Five gets you ten there'll be one or more lines broken – just unbreak them by deleting the [RETURN]. Save the amended listing,

PS - this is illegible

Having read in April's 8000 Plus of the new Thesis PS daisy wheel for the PCW 9512, I got my local dealer to get me one.



ACTUALLY ARMY INTELLIGENCY ARE CONSIDERING USING IT FOR ENCODING MESSAGES

86 8000 PLUS

make an ASCII file of it and try running

Disgusted

lam writing to protest in the strongest possible terms at your unsportsmanly behaviour by commencing a series of articles explaining how to use 'Mini Office Professional'. Do you think I would have purchased this software if I had actually wanted to USE the database? Where is the fun in a spreadsheet that does what it is told, first time? And, as happy as I am with LocoScript 2, why do you think I want another word processor, if not for the fun of conquering the manual??

I admit that instructions for the graphics program are disappointingly easy to follow, but have found that this is more than compensated for by the challenge of incorporating spreadsheet data directly on to a graphics file. And you intend to make such knowledge freely available!! Why are you doing this?? Can you imagine the uproar there would be if you printed the full solution to every adventure that came on the market? Just because this is in a less conventional form than, say, The HitchHiker's Guide to the Galaxy', is no reason to spoil the

Cast your mind back to your

first encounter with 'The HitchHiker's Guide to the Galaxy'. Think back to the sense of achievement you felt upon confounding one small hole, one book, a drain, a panel and two exasperating robots just to shove a space-age guppy in your ear. Or the determination and tenacity which built up little by little every time you were blasted into little bits and smeared over the universe Well, can't you see how much more subtle this program is? A fully workable package with no booby traps, other than the manual, but twice as frustrating. Brilliant!

If we were talking about any lesser magazine than 8000 Plus. I would think that you had been taken in and hadn't realised that this is a most sophisticated game, and not an office package at all. Having blown the database, I would beg you not to cover the communications section as I am still saving for a modem in order to participate in what will surely be the most confoundedly difficult climax vet devised to any adventure. Please don't spoil my fun Margaret Huther London

Disc Recovery

I think I am now getting on top of the disc doctoring again, despite getting a continuous supply of them

Ganet MINI OFFICE MANUAL TERPRETER PROGRAM

TROUBLE IS, I CAN'T UNDER-

referred on by Locomotive Software and Ametrad I have improved some of the salvage techniques and am automating othere

I think therefore that I can now handle more problems and so I'll repeat my original offer - anyone who has a corrupted disc with vital data can send it to me with a blank formatted disc. I'll do my best to retrieve what I can. I've farmed out some of the more tedious tasks so there's now a small fee for my local beloers. All profits go to the BACUP Cancer Counselling charity. David G Smith Kent

8000 A very useful service and a very worthwhile cause. Send duff disc. with blank formatted disc and

return postage to: Dave Smith, 41 Tutsham Way, Paddock Wood, Kent TN12 6UA, Tel: 089283 5974.

Ripoffs

Having just become a subscriber to your magazine and ordering some back issues. I have noticed that once upon a time you used to have available to lesser mortals like myself 'TIPOFFS The Collection: Issues 1-6' for the small price of £3.95. Is there any remote possibility that this vital publication will once again be on sale? Please say yes. A A Stultz

London

8000 Sorry, there are no plans to reprint it at the moment - we'd have to do it in a run of several thousand to make it worthwhile. You shouldn't need it. though - we've been re-running the best of the early tips (modified for LocoScript 2 too) in our 'Desert Island Tips' series in Tip Offs for the six months or so. Back numbers still available while stocks last!

Take it away

As I sat on the beach in the Gambia, soaking up the sun while wrestling with the unbelievably tedious process of using pen and paper (I am a writer by the way), I sighed with longing for my PCW. wishing I could have packed it, along with the suntan oil, bikini and sunglasses.

When I returned home. I found your excellent magazine waiting on the doorstep and inside was an advertisement for the new portable PPC, it seemed the answer to my prayer, for I am often away from home (not, I hasten to add, solely on holiday) and would find such a machine invaluable. I hotfooted round to my friendly Dixon's store, marvelled at Mr Sugar's genius in producing something so compact and lightweight and then found that it was not compatible with my PCW.

I rang Locomotive software who confirmed that LocoScript 2 could not be used on the new portable PPC and that they had no plans for producing such a version. When I humbly suggested that there might be a

8000 PLUS 87

It produces results which are dramatic, if unintelligible, I enclose a copy of this letter in Thesis PS to illustrate my point.

I don't know how to make it print English. Neither does my dealer. When he rang Amstrad. they seemed unaware of any problem: admittedly he only spoke to the sales staff, and is now trying to contact the technical people.

I imagine you have had many letters on this subject, and will have the answer in next month's issue. Or can I lay claim to the title of No. 1 Computer Thicko? John Hawthorn Windermere

8000 All you need do is make sure your document and printer are set up to expect the PS wheel - if they think they're still on the normal Prestige Pica 10 style then you get gobbledygook First you add the Thesis wheel

to the list of 'character styles' that LocoScript knows about - through [16] 'Settings' in the disc manager, selecting 'new character style and giving the new name as Thesis and the pitch as PS.

Write it to your startup disc under SETTINGS.STD by following the prompts.

From now on, if you want a document to be printed with this wheel, set it up through [f1] selecting 'Document

setup'. Press If61 'Printing' and choose 'character style' setting the option you want, Thesis, with the [+] key. When you come to print out you'll be asked if you want to change from the current style (probably Prestige Pica 10) to that intended for the document (Thesis), so

take that option.

Ip) zdyqqba Hzbak *pigkqkqk Hzbdqpy 1705 0:0 ivk Jap bq i777 AIFS 8 / xkki S qkk TjE 'T4 7J\$:kyq Spq fo Teaps foi; Spapic obes pl. 700pris [777, Alag braids, 120] and An Statistics, 200 and 30 and 1 ab 77 ab 1971 ab 77 ab 1971 ab 77 ab 1971 ab 77 | 651 | 155 | 55 | 517 | 5 | 650 | 171 | 5 | 650 | 171 | 5 | 650 | 171 | 5 | 650 | 171 | 5 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 | 650 | 171 Dozqu)q1c_p)yzz1 sby; Ebqik

POSTSCRIPT

market, they said that it wasn't as easy as all that!

Lacknowledge that Lam pretty much of a computer illiterate: Luse my PCW's word processing capabilities to the full in writing books and scripts, but other than working out a layout for my income tax return. I have never explored all the other exciting possibilities which I know are available. I have been well satisfied with LocoScript 2 and would not want to use another word processing package especially if I was working on the came material

I think I understand, however, why the two machines are not compatible - isn't it because the PCW is based on CP/M while the PPC is based on the IBM system? - but surely I can't be alone among PCW users who would go out tomorrow and buy a portable PCW if one were available

As you are such a powerful magazine with access to the counsels of the great, could you let me know whether any such animal is being contemplated, or whether a hybrid version of the new PPC with the relevant serial interfaces and connections would be possible?

Avril Rowlands Worcestershire

So many PCW owners would nav 8000 for portable word processing with LocoScript it seems such an obvious market it's surprising no-one's exploited it yet, though the late lamented Nabitchi were reputedly working on a rehoused portable version of the PCW when they went into liquidation. At the moment the best compromise if you want to make notes in the library, out on your archaeological dig or on the beach in the Gambia, is still the Cambridge Z88. It uses its own rather idiosyncratic word processor which is also a spreadsheet. We covered file transfer between ZBBs and PCWs in last October's 8000 Plus (issue 13). There were a few rumours of a portable PCW from Amstrad, but they're only rumours.

Poked up to the 9s

In the March edition of 8000 plus you featured a program called the "Variable Lister" which Lentered into my 9512 and found it would not direct output to my printer. I contacted your office by telephone to ask if you knew the correct pokes to use the daisy wheel printer, your staff said they didn't but would find out and publish it in the April edition.

I note in "Gremlins Corner" you have featured several amendments to this program but there is no mention of using a 9512 printer. Are we to be forgotten? Does the fact that your magazine cover

bears the numbers 9512 in its logo mean nothing? Surely I am not the only reader programming on a 9512

How about rectifying the problem for me and all the other confused programmers? P O'Halloran Norfolk

8000 We still don't know what the pokes are - can any friendly hackers out there help us?

Bold washes out

Why isn't the LocoScript bold command obeyed to the end of the document?

Using LocoScript 2.12 Loften want to print a document in draft quality in bold, and insert the Bold command at the beginning of the document. I find that after about 50 lines, the print suddenly, from one line to the next, ceases to be bold. If I want bold to the end, I have to insert a second Bold command just before this 'reversion' to unBold occurs. Why does the first Bold command not remain in force until the end of the document? Dr Andrew Herxheimer London

There was a similar bug in early 8000 versions of LocoScript 2, but it's said to have been fixed. If you're

sure it is a bug - ie, that it really does revert to bold by itself and that you haven't out in any layout commands or anything - write to Locomotive. They're pretty good about fixina buas auickly.

Change your Check

When I first ran your Font Definer program (8000 Plus, April 1988), it didn't work properly, even though I had keyed it in correctly according to the Basic Checker printed in the same issue. Then I discovered that in line 280 of the Font Definer I had typed CHR\$(149)=" "instead of ". Despite this CHR\$(149)+* mistake, the Checker had produced the same checksum, 12D9, for my line as for the line printed in the magazine. Do you have any idea what percentage of errors Checker might miss in this way? Peter G King Bristol

The Checksum listing ignores 8000

spaces when it produces its checksum of each line, so of course your single-space version scored the same as the double-snace version. It also treats lower and upper case letters the same, so PRINT CHR\$(27)+"E" (which clears the screen) and PRINT CHR\$(27)+"e" (which turns on the cursor after you've turned it off) would score the

Beyond our

Any idea how Drive A became dedicated to Ken? A friend, asked me how to get rid of the message which had appeared on her disc management screen against Drive A and I was rash enough to say that she must he mistaken; that she

could not possibly have put anything in that space. She promptly supplied the offending disc and there he is and won't go away.

She has nothing against Ken and is quite content to tolerate this permanent reminder of his existence but I am now anxious to know how he could have got there and how to exorcise him.

She could, of course, copy all the files on to another disc and reformat the present one but that

seems rather an inelegant way of disposing of him. R S Morrison Isle of Lewis

You can rename Ken's disc in LocoScript 2 through ff21 'Disc' in the disc manager. This is how it got dedicated originally. The disc name can also be set using SET - see this month's CP/M article.

Save FFF

For use on my PCW 8512 I have a copy of Supercalc 2 with which I am otherwise well satisfied, but the inability of the program to generate a "£" sign does unfortunately limit its value for issued reports and serious use generally

I have seen somewhere that it is possible to overcome this rather glaring deficiency for us UK types obsessed with £££s - even if we do not have that many of our own to count! Please can you help before I resort to taking up headbanging as a hobby? Michael Dver Shrewsbury

If you put in your CP/M disc /side 8000 2 on the 8000s) before running SuperCalc and type LANGUAGE 3 then the # key will produce a £ sign

Mouse Training

I enjoy writing (or trying to write) programs, and typing in listings from Listings Plus and I would like to know if it is possible to include mouse control in a BASIC program, and, if so, how this is possible. There are many Listings Plus listings that could benefit from mouse control.

Secondly, I was reading with interest your review of Ocean's MATCHDAY II (Light Relief, April 1988) which, without a doubt, shows a PCW screen shot with three colours - black and green, as normal, but also white.

Is this some top secret technique, or can it be used in BASIC programs? If so, how? Oliver Burkeman York

Mice generate an x and y 8000 coordinate which is altered when

the trackerball moves, and also a variable telling you what state the buttons are in. Take the Kempston mouse as an example. It sends this information to various ports - the x-coordinate to 208, the v to 209, and the button state to 212. Details would be in the mouse manual.

With the following lines in your program as a subroutine then after each call of it you would find that the cursor coordinate was (x%,y%) and leftb%, rightb%, or bothb% would be -1 if the left, right, or both buttons, were down

- respectively 1000 x%=inp (208) : v%=inp (209)
- 1010 button%*inp (212)
- 1020 leftb%=(button%=253) 1030 righth%=(button%=254)
- 1040 bothb%=(button%=252) 1050 return

You can then use x% and y% in your main program - to place text, symbols or graphics at that point with CHR\$(27)+"X", for example.

Those colours are a trick of the light; camera film rarely prints out colours as the eve sees them. The most curious example was when the 9512 with its famous white screen came out; this showed up as green on any colour shot. For our pictures on the 9512 review edition of 8000 Plus we had to convert the green on the transparencies back to white so that all the references in the text to the white screen would make concel

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Easy to use but still flexible through use of options Amstrad versions all at a special low price

Only of value on large programs
Limited value to most PCW users (except BASIC buffs)

MODULA 2 £45.00 • FTL/Grev Matter • 0364 53499

A compiler. Modula-2 is the successor to Pascal, good for large amarams requiring separate compliation.

PLUSES · MINUSES Full implementation with extensions

WordStar-time ecreen editor included

Compilation process is longwinded and not for beginners

PROGRAMMING •

Programming languages come as either 'compilers' or 'interpreters' - compilers preprocess the program into machine code, so are much faster. The PCW's standard Mallard BASIC and LOGO are both interpreters. Compilers are generally more cumbersome to use than interpreters, but have obvious benefits.

With language compilers in particular it is difficult whether they are reliable and efficient without spending many weeks working with them, impossible for a brief review. If you use a specialised programming language and have any comments that would help us compile a good software file entry for it, we would be pleased to hear from you.

HISOFT C £39.95 · HiSoft · 0525 718181

A very good C compiler, fast, produces good compact code PLUSES • MINUSES Compiles program into ordinary CPM .COM file Produces compact code

No floating point arithmetic

ARNOR C

£49.95 • Arnor • 0733 239011

Good compiler with floating point arithmetic, but not as fast or as PLUSES - MINUSES

Floating point arithmetic

Forth is an unusual language, somewhere between assembler and C. This is one of the few compilers available for the PCW PLUSES · MINUSES Comes with a Forth editor

Manual doesn't teach you Forth

HiSoft Cue factor and chaaner

MIX C £29.95 · Advantage · 0844 52075

American C compiler. You can have a full screen entitor with it for

CBASIC £45.00 · Digital Research · 0635 35304

DI HEES . MINHSES

Easier programming tool than conventional BASIC interpreter Very similar to BASIC, so easy to learn No text editor - must split your programs into 200 line chunks

for RPED to work on Programs work no faster than they would in conventional BASIC sometimes slower

IT'S BASIC (VOLS 1 AND 2) £7.95 each • Nabitchi • 051-708 8775/0123

Games with a more serious intent. These discs provide 20 simple games and applications each, and allow programmers to look at the BASIC to see how it's done and to adapt it for their own programs. You can play music on your CP/M and create ur own Space Invader figures. DI LIGES . MINITERS

Twenty programs at rock bottom price.

Invaluable tips for programmers. Costs little more than a blank disc.

No tutonal guidance.
 Non-programmers may get bored

The guide continues with the categories of SPREADSHEETS, GRAPHICS and GAMES . The month after that will cover WORD PROCESSORS, ACCOUNTS PAYROLL, UTILITY and DTP software, and the month after that it's back to this month's topics.

Our intention is to keep publishing the three parts of the guide in rotation,

updating it each month to include all new products. If you would like to see other sections of the guide, back issues of 8000 Plus are available at £1.75 each.

Meanwhile, if you are aware of any significant omissions or errors in the File as published, please let us know. We intend to maintain it as THE authoritative guide to PCW software.